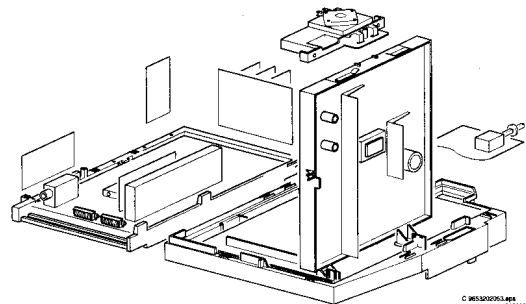


Service
Service
Service

MG3.1E
AA



Service Manual

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1. Technical specifications

1.1 Specifications

1.1.1 Reception

| | |
|-------------------------------|--|
| Tuning system | : 100 fold PLL |
| Colour transmission systems | : |
| Off-air: | : /05, /19, /12, /58 |
| | : PAL B/G/I/+ |
| | : SECAM B/G/L/L' |
| | : SECAM D/K |
| | |
| A/V connections | : PAL B/G |
| | : PAL I (UK only) |
| | : SECAM B/G |
| | : NTSC video playback |
| | |
| Channel selections | : 120 channels VHF, UHF, S-Channels, Hyperband |
| Frequency range | : (47.25-855.25MHz) |
| Aerial input | : 75Ω (Coax) |
| VCR preselections | : 0; 90-99 |
| frequency / Channel selection | : (Germany, Austria and Benelux only) |

1.2.2 Rear connections

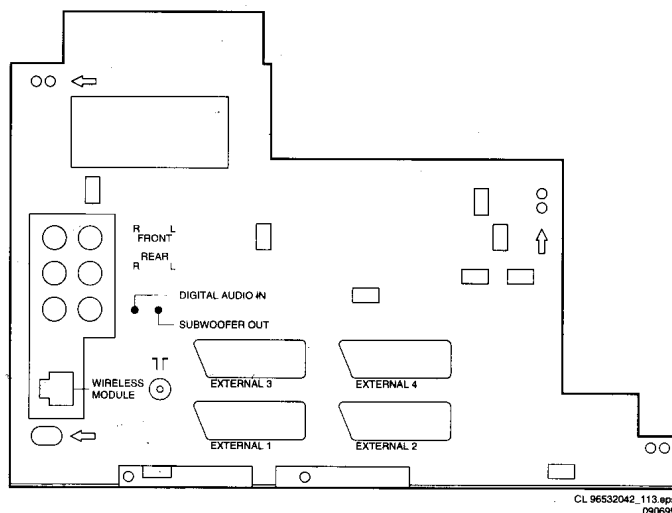


Figure 1-2

1.1.2 Miscellaneous

| | |
|---------------------------|---------------------------------|
| Mains voltage | : 220V-240V (10%); 50-60Hz (5%) |
| Ambient temperature | : +5 / +45 degrees Celsius |
| Standby Power Consumption | : 0.3W |

1.2 Specification of the terminal sockets

1.2.1 Front connections

TOP CONTROL FL7/FL8 STYLING

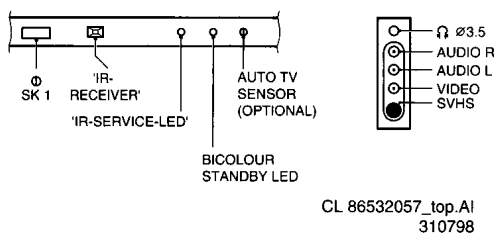


Figure 1-1

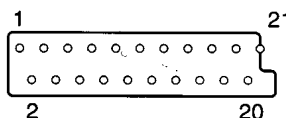
Audio / video

| | | |
|-------------|-------------------|-------|
| - Video | 1Vpp/75Ω | ⊕ ⊕ |
| - Audio | L(0.5Vrms ≥ 10κΩ) | ⊕ ⊕ |
| - Audio | R(0.5Vrms ≥ 10κΩ) | ⊕ ⊕ |
| - Headphone | (32-600Ω 10μΩ) | ⊕ ⊕ ⊕ |

SVHS

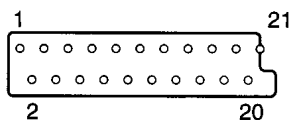
| | | |
|-------|---------------|-----|
| 1 - | gnd | ⊥ |
| 2 - | gnd | ⊥ |
| 3 - Y | (1Vpp; 75Ω) | ⊕ ⊕ |
| 4 - C | (0.3Vpp; 75Ω) | ⊕ ⊕ |

External 1 (in/out): RGB+CVBS



| | | |
|-----------------|--|-----|
| 1 - Audio | R(0.5Vrm ≤ 1κΩ) | ⊕ ⊕ |
| 2 - Audio | R(0.5Vrm ≥ 10κΩ) | ⊕ ⊕ |
| 3 - Audio | L(0.5Vrm ≤ 1κΩ) | ⊕ ⊕ |
| 4 - Audio | gnd | ⊥ |
| 5 - Blue | gnd | ⊥ |
| 6 - Audio | L(0.5Vrm ≥ 10κΩ) | ⊕ ⊕ |
| 7 - Blue | (0.7Vpp/75Ω) | ⊕ ⊕ |
| 8 - CVBS-status | 0-1.3V:INT 4.5-7V:EXT 16:9 9.5-12V:EXT 4:3 | ⊕ ⊕ |
| 9 - Green | gnd | ⊥ |
| 10 - | | |
| 11 - Green | (0.7Vpp/75Ω) | ⊕ ⊕ |
| 12 - | | |
| 13 - Red | gnd | ⊥ |
| 14 - RGB-status | gnd | ⊥ |
| 15 - Red | (0.7Vpp/75Ω) | ⊕ ⊕ |
| 16 - RGB-status | 0-0.4V:INT 1-3V:EXT/75Ω | ⊕ ⊕ |
| 17 - CVBS | gnd | ⊥ |
| 18 - CVBS | gnd | ⊥ |
| 19 - CVBS | (1Vpp/75Ω) | ⊕ ⊕ |
| 20 - CVBS | (1Vpp/75Ω) | ⊕ ⊕ |
| 21 - Earth | gnd | ⊥ |

External 2 (in/out): SVHS+RGB+CVBS (intended for VCR.)



| | | |
|-----------|------------------|-----|
| 1 - Audio | R(0.5Vrm ≤ 1κΩ) | ⊕ ⊕ |
| 2 - Audio | R(0.5Vrm ≥ 10κΩ) | ⊕ ⊕ |
| 3 - Audio | L(0.5Vrms 1κΩ) | ⊕ ⊕ |

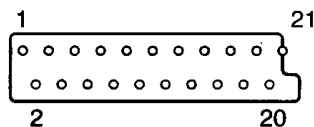
| | |
|---------------------|--|
| 4 - Audio | gnd |
| 5 - Blue | gnd |
| 6 - Audio | L(0.5V _{rm} ≥10kΩ) |
| 7 - Blue/Chroma out | (0.7V _{pp} /75Ω) |
| 8 - CVBS-status | 0-1.3V:INT 4.5-7V:EXT 16:9 9.5-12V:EXT 4:3 |
| 9 - Green | gnd |
| 10- | Easy link |
| 11- Green | (0.7V _{pp} /75Ω) |
| 12- | |
| 13- Red | gnd |
| 14- RGB-status | gnd |
| 15- Red/Chroma in | (0.7V _{pp} /75Ω) |
| 16- RGB-status | 0-0.4V:INT 1-3V:EXT/75Ω |
| 17- CVBS | gnd |
| 18- CVBS | gnd |
| 19- Y/CVBS | (1V _{pp} /75Ω) |
| 20- Y/CVBS | (1V _{pp} /75Ω) |
| 21- Earth | gnd |



| | |
|------------|-------------------------|
| 12- | |
| 13- | |
| 14- | |
| 15- | |
| 16- | |
| 17- | |
| 18- CVBS | gnd |
| 19- | |
| 20- Y/CVBS | (1V _{pp} /75Ω) |
| 21- Earth | gnd |



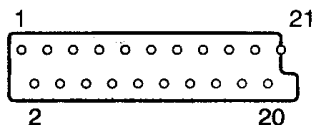
External 4 (in): CVBS+Audio



| | |
|-----------------|--|
| 1 - | |
| 2 - Audio | R(0.5V _{rms} ≥10kΩ) |
| 3 - | |
| 4 - Audio | gnd |
| 5 - | |
| 6 - Audio | L(0.5V _{rms} ≥10kΩ) |
| 7 - | |
| 8 - CVBS-status | 0-1.3V:INT 4.5-7V:EXT 16:9 9.5-12V:EXT 4:3 |



External 3 (in): CVBS+Audio



| | |
|-----------------|--|
| 1 - | |
| 2 - Audio | R(0.5V _{rm} ≥10kΩ) |
| 3 - | |
| 4 - Audio | gnd |
| 5 - | |
| 6 - Audio | L(0.5V _{rm} ≥10kΩ) |
| 7 - | |
| 8 - CVBS-status | 0-1.3V:INT 4.5-7V:EXT 16:9 9.5-12V:EXT 4:3 |
| 9 - | |
| 10- | |
| 11- | |



| | |
|------------|-------------------------|
| 9 - | |
| 10- | |
| 11- | |
| 12- | |
| 13- | |
| 14- | |
| 15- | |
| 16- | |
| 17- | |
| 18- CVBS | gnd |
| 19- | |
| 20- Y/CVBS | (1V _{pp} /75Ω) |
| 21- Earth | gnd |



1.3 PWB-location drawing

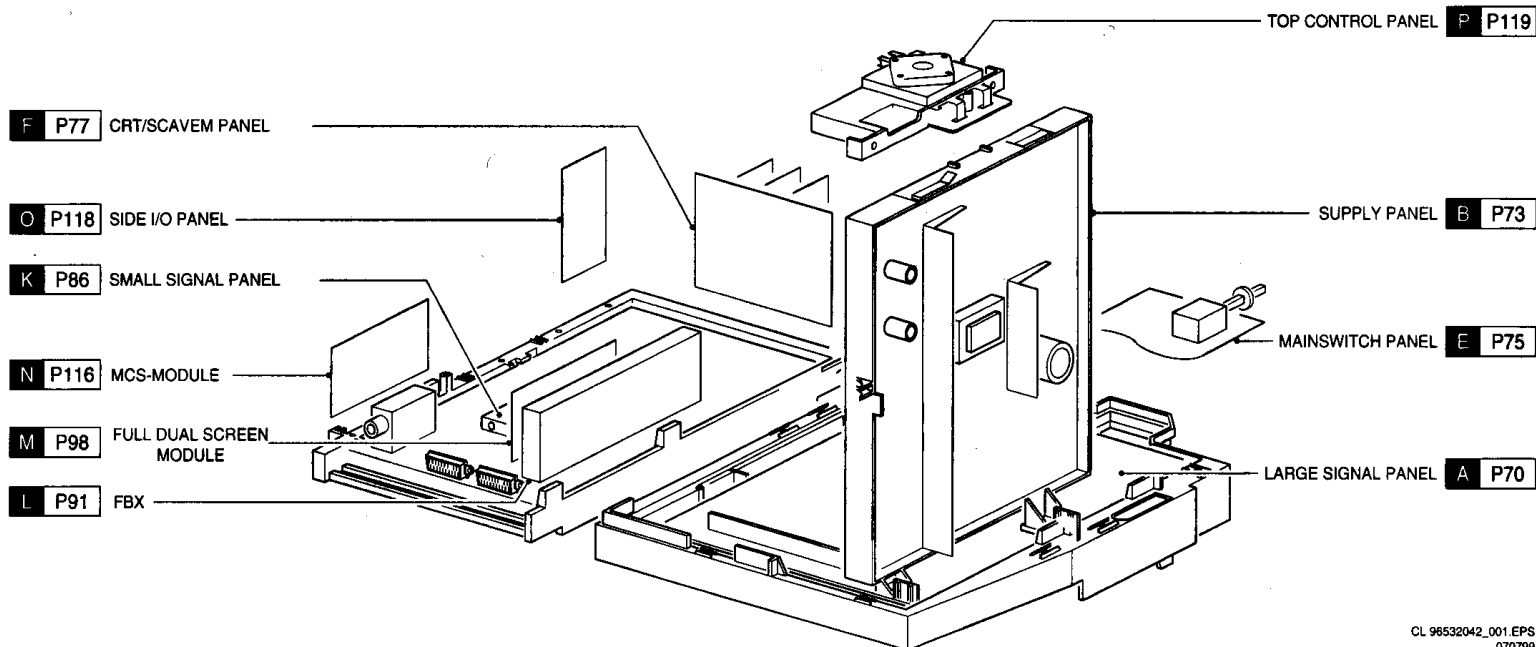



Figure 1-3


2. Safety instructions, Maintenance instruction, Warnings and Notes

2.1 Safety instructions for repairs



1. Safety regulations require that during a repair:
 - The set should be connected to the mains via an isolating transformer;
 - Safety components, indicated by the symbol , should be replaced by components identical to the original ones;
 - When replacing the CRT, safety goggles must be worn.
2. Safety regulations require that after a repair the set must be returned in its original condition. In particular attention should be paid to the following points.
 - As a strict precaution, we advise you to resolder the solder joints through which the horizontal deflection current is flowing, in particular ('general repair instruction'):
 - All pins of the line output transformer (LOT);
 - Fly-back capacitor(s);
 - S-correction capacitor(s);
 - Line output transistor;
 - Pins of the connector with wires to the deflection coil;
 - Other components through which the deflection current flows.
 - Note:
 - This resoldering is advised to prevent bad connections due to metal fatigue in solder joints and is therefore only necessary for television sets older than 2 years.
 - The wire trees and EHT cable should be routed correctly and fixed with the mounted cable clamps.
 - The insulation of the mains lead should be checked for external damage.
 - The mains lead strain relief should be checked for its function in order to avoid touching the CRT, hot components or heat sinks.
 - The electrical DC resistance between the mains plug and the secondary side should be checked (only for sets which have a mains isolated power supply). This check can be done as follows:
 - Unplug the mains cord and connect a wire between the two pins of the mains plug;
 - Set the mains switch to the "on" position (keep the mains cord unplugged!);
 - Measure the resistance value between the pins of the mains plug and the metal shielding of the tuner or the aerial connection on the set. The reading should be between 4.5 Ω and 12 MΩ
 - Switch off the TV and remove the wire between the two pins of the mains plug.
 - The cabinet should be checked for defects to avoid touching of any inner parts by the customer.





- Clean the power supply and deflection circuitry on the chassis.
- Clean the picture tube panel and the neck of the picture tube.

2.3 Warnings

1. ESD 
2. All ICs and many other semiconductors are susceptible to electrostatic discharges (ESD). Careless handling during repair can reduce life drastically. When repairing, make sure that you are connected with the same potential as the mass of the set by a wristband with resistance. Keep components and tools also at this same potential.
3. Available ESD protection equipment:
 - Complete kit ESD3 (small table mat, Wristband, Connection box, Extension cable and Earth cable) 4822 310 10671
 - Wristband tester 4822 344 13999
4. In order to prevent damage to ICs and transistors, all high-voltage flashovers must be avoided. In order to prevent damage to the picture tube, the method shown in Fig. 2-4 should be used to discharge the picture tube. Use a high-voltage probe and a multimeter (position DC-V). Discharge until the meter reading is 0V (after approx. 30s).
5. Together with the deflection unit and any multipole unit, the flat square picture tubes used form an integrated unit. The deflection and the multipole units are set optimally at the factory. Adjustment of this unit during repair is therefore not recommended.
6. Be careful during measurements in the high-voltage section and on the picture tube.
7. Never replace modules or other components while the unit is switched on.
8. When making settings, use plastic rather than metal tools. This will prevent any short circuits and the danger of a circuit becoming unstable.
9. Wear safety goggles during replacement of the picture tube.

2.4 Notes

The direct voltages and oscillograms should be measured with regard to the tuner earth () or hot earth () as this is called. The direct voltages and oscillograms shown in the diagrams are indicative and should be measured in the Service Default Mode (see chapter 5) with a colour bar signal and stereo sound (L:3 kHz, R:1 kHz unless stated otherwise) and picture carrier at 475.25 MHz.

Where necessary, the oscillograms and direct voltages are measured with ) and without aerial signal (). Voltages in the power supply section are measured both for normal operation () and in standby (). These values are indicated by means of the appropriate symbols.

The picture tube PWB has printed spark gaps. Each spark gap is connected between an electrode of the picture tube and the Aquadag coating.

The semiconductors indicated in the circuit diagram and in the parts lists are completely interchangeable per position with the semiconductors in the unit, irrespective of the type indication on these semiconductors.

2.2 Maintenance instruction

It is recommended to have a maintenance inspection carried out by a qualified service employee. The interval depends on the usage conditions:

- When the set is used under normal circumstances, for example in a living room, the recommended interval is 3 to 5 years.
- When the set is used in circumstances with higher dust, grease or moisture levels, for example in a kitchen, the recommended interval is 1 year.
- The maintenance inspection contains the following actions:
 - Execute the above mentioned 'general repair instruction'.

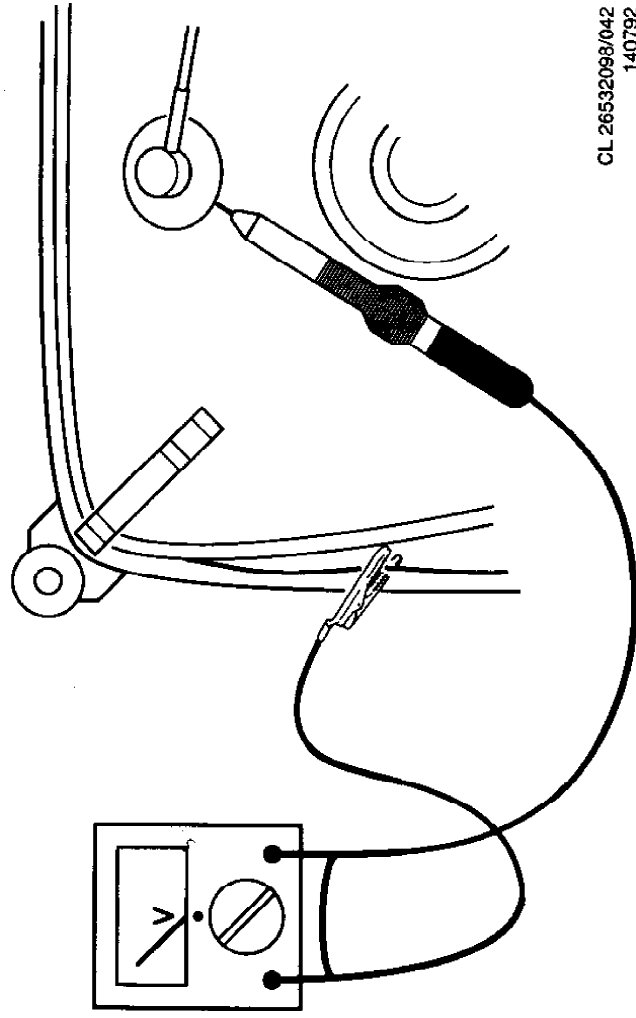


Figure 2-4

4. Mechanical instructions

4.1 Removing the attached Wireless Surround transmitter box at the rear of the set

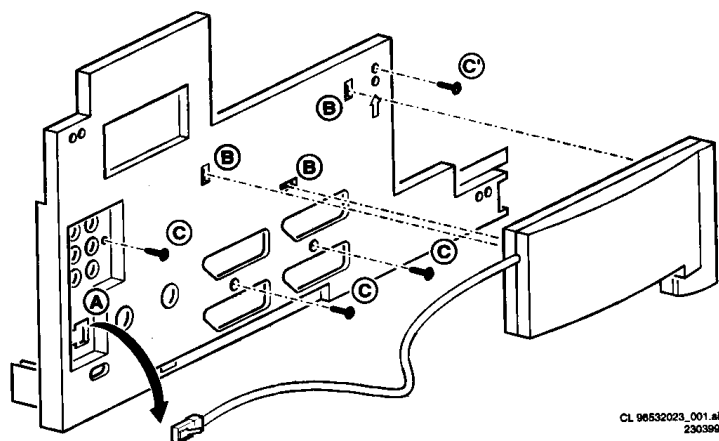
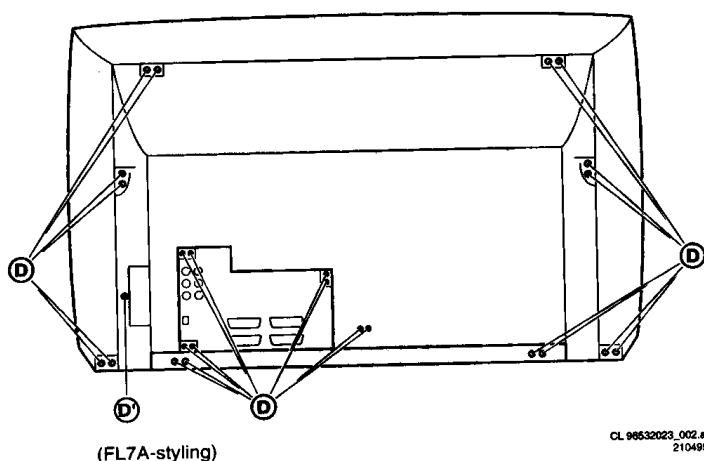
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Figure 4-5

1. Remove the cable of the Wireless Surround Transmitter box at location A (see figure 4-5). At the left side of this plug there is the release-hook of the lock-mechanism.
2. Pull the Wireless Surround Transmitter box backwards. It will release from 3 clicks B.
3. Remove the 4 fixation screws (C and C') of the I/O-cover plate. Take care the screw C' is somewhat hidden. Therefore also a visible arrow is placed underneath the screw-hole to emphasise this.

4.2 Removing the rear cover & I/O-cover plate

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(FL7A-styling)

Figure 4-6

1. Remove the fixation screws (D) of the rear cover (see figure 4-6). Notice also the screw D' for the side-I/O.
2. Remove the rear cover
3. The I/O-cover plate can easily be removed. On the left side there is a release hook, at the right side there is a hinge-construction. (see figure 4-7).

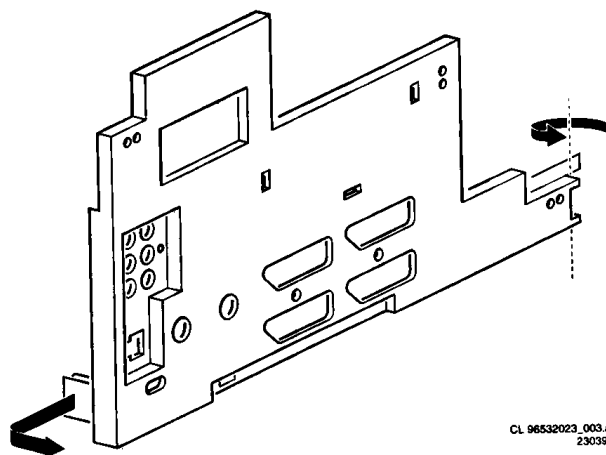
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230399

Figure 4-7

4.3 Removing the subwoofer box from the bottom plate

1. First disconnect the faston plugs at the top of the subwoofer.
2. The subwoofer has 2 rubber feet at the bottom side. Behind these feet there is a snap hook. This must be pulled backwards. Now the subwoofer can be moved upwards.

4.4 Removing module support bracket of the Small Signal Panel

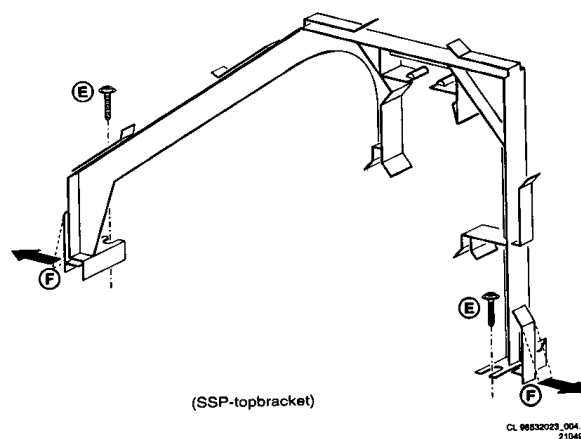
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210499

Figure 4-8

1. Remove the 2 fixation screws (E) (see figure 4-8).
2. Pull snap-hooks (F) to the outside direction and remove the bracket. The left snap-hook is somewhat difficult to release, but with some effort it is possible to release it by manipulating the hook with a finger underneath the MCS module at the left hand side.

4.5 Removing the top bracket of the Large Signal Panel

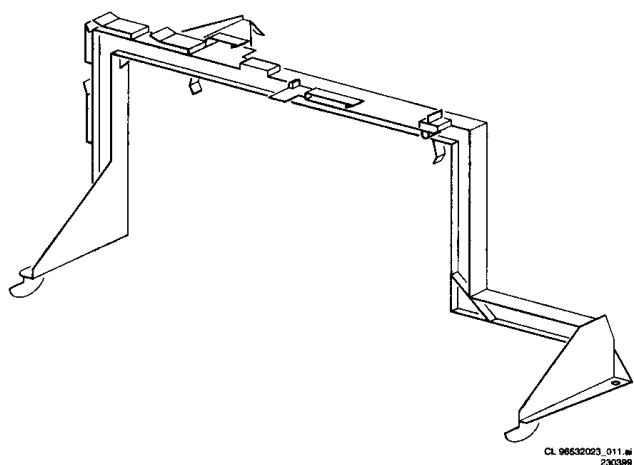


Figure 4-9

1. Remove the 2 fixation screws.
2. This bracket can only be removed, when the supply panel, besides the LSP, is removed.

4.6 Service positions

There are several predefined service positions:

- Service position 1 for both the chassis panels (component-side SSP, LSP, supply)
- Service position 2 for the MCS module
- Service position 3 for the Supply panel (copper-side)
- Service position 4 for the LSP and Supply panel (copper-sides)

4.6.1 Service position 1 for both the chassis panels component side

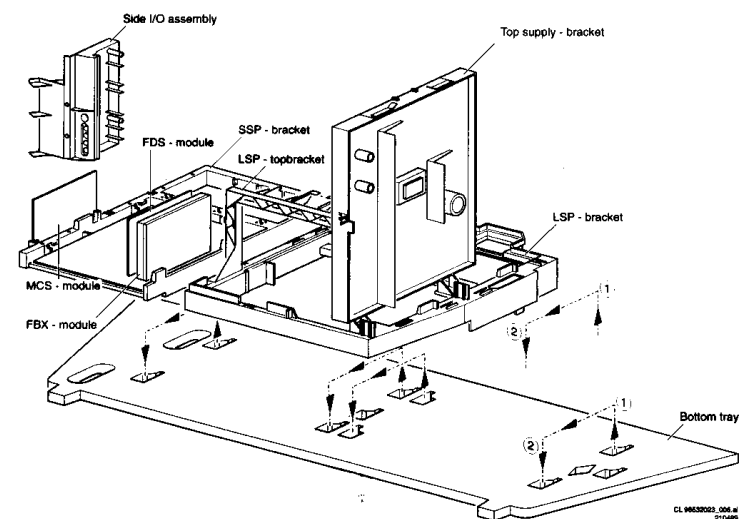


Figure 4-10

1. Pull the SSP- and LSP assembly backwards, about 8 cm (see figure 4-10). The brackets are not fixed to each other, but can be repositioned backwards, as if they were one bracket.
2. Hook the brackets in the first row of fixation-holes of the bottom tray. In other words re-position the fixation from (1) to (2).
3. This position is meant for servicing the SSP. All service test points are accessible at the top side of this panel.

4.6.2 Service position 2 for the MCS module

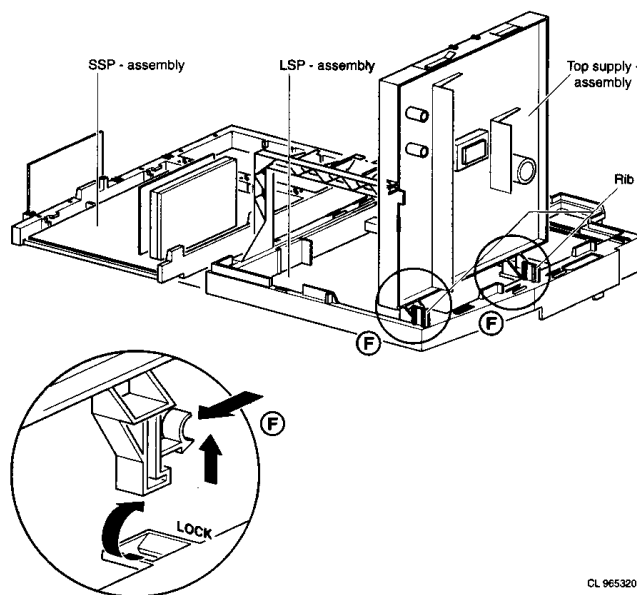


Figure 4-11

1. In this position the MCS module can be serviced from the copper side (left hand side) (see figure 4-11).
2. When one wants to have access to the other side of the board (reflow-side), one must first release the snap construction at the bottom side of the MCS module. This can be achieved the best, by releasing the hook with a screwdriver approaching it from the rear.
3. The board can be rotated now about 220 degrees clockwise (hinged by the connectors). The MCS module can support on the SSP bracket. It can even be shifted in a wire-cable hook. All reflow components and test points on this side are accessible now.

4.6.3 Service position 3 for the Supply panel (copper-side)

1. Release the Supply assembly out of the LSP assembly (see figure 4-11). This can be done by pulling both the release hooks (F) of the Supply bracket backwards. After a click (release), the Supply bracket can be lifted.
2. After lifting the Supply assembly, it must be rotated 90 degrees clockwise, in such a way that the copper-side will be on top (before doing this, release the wire cables from the wire-fixations, disconnect the wire cable 0390 coming from the rotation-coil (if valid)).
3. The 2 support-posts of the Supply assembly have 2 slots, that can be placed over 2 ribs that are available on the right side of the LSP bracket.
4. The copper side of the Supply panel with its service test points is available now. (see figure 4-12)

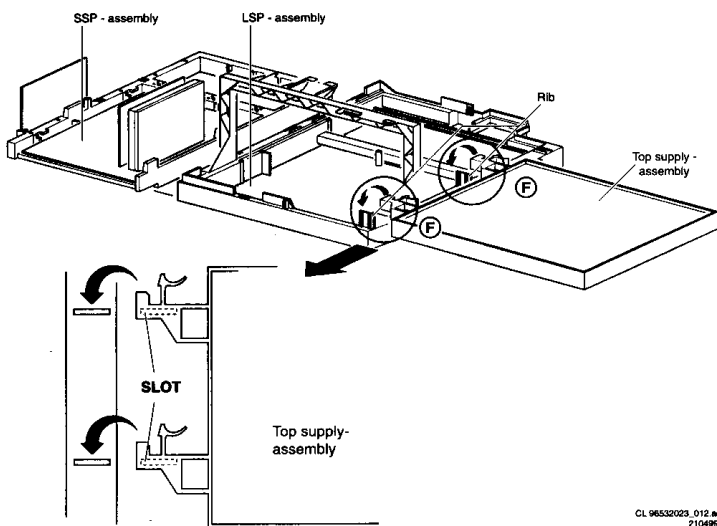


Figure 4-12

4.6.4 Service position 4 for the LSP and Supply panel (copper sides)

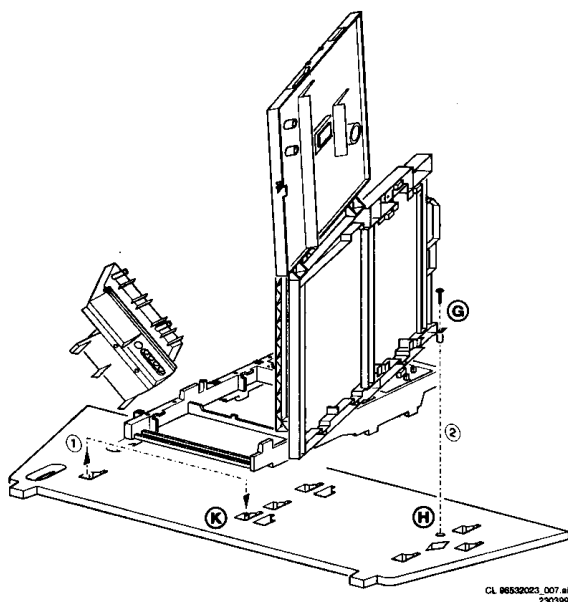


Figure 4-13

1. First reinforce the Supply assembly fixation with the LSP bracket with a screw. (see figure 4-13)
2. Now move as well the SSP bracket and LSP bracket about 25 cm to the right.
3. Rotate the complete LSP/Supply assembly 90 degrees, such that snaphook (G) is placed into hole (H). If needed this construction can be reinforced with a screw (see figure 4.13).
4. At this moment one can measure all the service test points of the LSP on the right hand side and of the Supply panel at the left hand side.
5. The left front hook of the SSP bracket can be shifted in the right SSP hole (see K; of service position 1) of the bottom plate

4.7 Removing the SSP from the SSP bracket

1. Release the 3 fixation clamps on the right hand side of the bracket.
2. Press the board upwards and remove the board from the bracket.

4.8 Removing the Supply panel from the Supply bracket

1. Remove the 4 fixation screws
2. Release the 2 top-corner snap-constructions by forcing them outwards
3. The panel hinges at the bottom. When the vertical sides of the bracket are forced somewhat outwards, the pcb can be removed.

4.9 Removing the LSP from the LSP-bracket

1. Remove the centre fixation screw on the top side of the panel
2. The panel is hinged at the left side. On the right side and the rear side the panel has release-hooks
3. The pcb can be removed now.

4.10 Removing the top control board

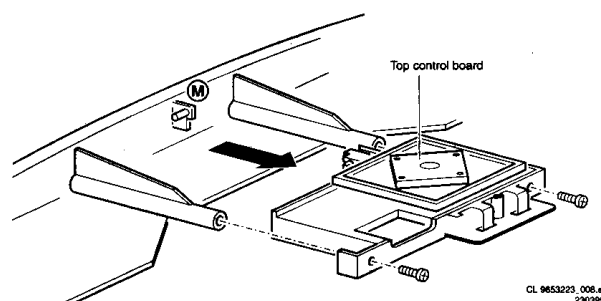


Figure 4-14

1. Remove the 2 screws (see figure 4-14)
2. Pull the top control assembly backwards with some force. It is caught by the front 'hinge' (see M).

4.11 Removing the side-I/O board

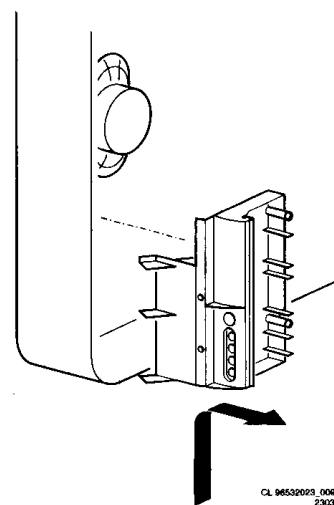


Figure 4-15

1. The complete Side-I/O assembly can be lifted out of the hinges and placed on the bottom plate of the set (see figure 4-15)
2. The board can easily be removed out of the bracket by releasing the fixation clamps.

4.12 Removing the mains switch/LED board

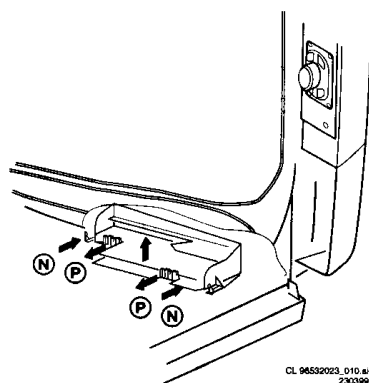


Figure 4-16

1. Release the two fixation clamps (N) by forcing them up (see figure 4-16). At the same time the complete assy (mains unit bracket + pcb) must be pulled backwards.
2. If the light guide was or has become defective this can be replaced now
3. The Mains switch/led board can be removed now by releasing the clamps (P) of the bracket.

4.13 Mounting the rear cover

Before mounting the rear cover, check whether the mains cord is mounted correctly in the guiding brackets.

5. Service modes, faultfinding and repair tips

In this chapter the following paragraphs are included:

- 5.1 Test points
- 5.2 Service modes and Dealer Service Tool and ComPair (including fault finding tips related to CSM-mode)
- 5.3 Error codes
- 5.4 Protections
- 5.5 Faultfinding trees

5.1 Test points

The MG3.1E chassis is equipped with test points in the service printing. These test points are referring to the functional blocks:

- A1-A2-A3, etc. on Small Signal Panel: Test points for the audio processing circuitry.
- A1-A2-A3, etc. on Large Signal Panel: Test points for the audio amplifiers.
- B1-B2-B3, etc: Test points for the power supply.
- C1-C2-C3, etc: Test points for the control circuitry.
- F1-F2-F3, etc. on Large Signal Panel: Test points for the frame output circuitry.
- F1F-F2F-F3F, etc. on CRT/Scavem Panel: Test points for the CRT-panel circuitry.
- F1K-F2K-F3K, etc on Small Signal Panel: Test points for the frame drive.
- I1-I2-I3, etc: Test points for the Tuner/IF part.
- L1-L2-L3, etc: Test points for the line drive and line output circuitry
- M1-M2-M3, etc: Test points on FDS-module
- N1-N2-N3, etc: Test points on MCS-module.
- R1-R2-R3, etc: Test points on Surround Transmitter module.
- S1-S2-S3, etc: Test points for the synchronisation circuitry.
- T1-T2-T3, etc: Testpoints for the teletext circuitry.
- U1-U2-U3, etc: Test points on Surround Receiver module.
- V1-V2-V3, etc: Test points for the video processing circuitry.
- W1-W2-W3, etc: Test points on Surround Amplifier, Supply..

The numbering is done in a for diagnostics logical sequence; always start diagnosing within a functional block in the sequence of the relevant test points for that functional block.

5.2 Service modes, Dealer Service Tool and ComPair

For easy installation and diagnosis the dealer remote control RC7150 is introduced. The RC7150 can be used for all new TV sets, including all set of the MG3.1E chassis. The RC7150 is also called Dealer Service Tool or DST. The ordering number of the DST (RC7150) is 4822 218 21232.

5.2.1 Installation features for the dealer

The dealer can use the RC7150 for programming the TV-set with presets. 10 Different program tables can be programmed into the DST via a TV-set (downloading from the GFL, MD2, MG2.1 or MG3.1 to the DST; see GFL, MD2, MG2.1 and MG3.1 service manuals) or by the DST-I (DST interface; ordering code 4822 218 21277).

For explanation of the installation features of the DST, the directions for use of the DST (4822 727 20073) are recommended (for the MG3.1E chassis, download code 4 should be used).

5.2.2 Diagnose features for the servicer

The MG3.1E sets can be put in the two service modes via the DST RC7150. These are the Service Default Mode (SDM) and the Service Alignment Mode (SAM). The SDM and SAM can also be entered by short circuiting the relevant pins on the SSP.

Service Default Mode (SDM)

Specification of the SDM:

- Tuning frequency 475.25 MHz.
- TV-system for BGLM sets set to BG, for BGLL'I sets to LL'.
- All picture settings at 50% (brightness, colour, contrast, HUE).
- All sound settings at 50% except volume at 25% (so bass, treble, balance at 50%, volume at 25%).
- All service-unfriendly modes are disabled (like sleep timer, child lock, blue mute).

Entering the SDM can be done in 3 ways:

- By the "DEFAULT" key on the DST while the set is in the normal operation mode.
- By ComPair (see the instruction book of ComPair).
- By short-circuiting for a moment the two pins (pin 2 and 3 of connector 0356) on the component side of the SSP with the indication "SDM" (activation can be performed in all

modes except when the set has a problem with the main-processor).

Note: If the SDM is entered via the pins, all the protections are de-activated.

Exiting the SDM can only be done via the STANDBY command. By switching off-on the set with the mains switch the MG3.1E will come up again in the SDM.

Service Alignment Mode (SAM)

Specification of the SAM:

- Software alignments (see chapter 8).
- Option settings (see chapter 8).
- Error buffer reading and erasing. The most recent error code is displayed on the left side.
- Operation counter.
- Software version.

Entering the SAM can be done in 3 ways:

- By the ALIGN-button on the DST while the set is in the normal operation mode (or SDM). Enter the password '3-1-4-0' and press OK.
- By ComPair (see the instruction book of ComPair).
- By short-circuiting for a moment the two pins (pin 1 and 2 of connector 0356) on the component side of the SSP with the indication "SAM" (activation can be performed in all modes except when the set has a problem with the microprocessor).

Note: If the SAM is entered via the pins, all protections are de-activated.

Exiting the SAM can be done via the MENU command or via switching off-on the set with the mains switch.

Customer Service Mode (CSM)

All MG3.1E sets are equipped with the 'Customer Service Mode' (CSM). This 'Customer Service Mode' is a special service mode which can be activated and deactivated by the customer upon request of the service technician/dealer during a telephone conversation in order to identify the status of the set. This CSM is a 'read only' mode, therefore modifications in this mode are not possible.

Switching-on of the Customer Service Mode

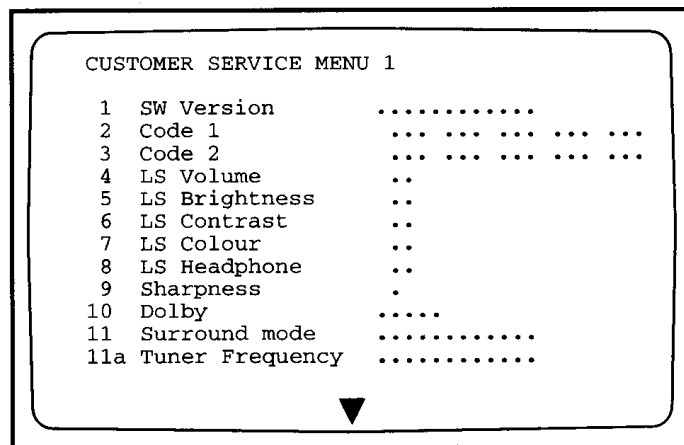
The Customer Service Mode will switch-on after pressing simultaneously the "MUTE" knob on the remote control handset and the "MENU" button on the TV for at least 4 seconds. This activation only works if there is no menu on the screen.

Switching-off the Customer Service Mode

The Customer Service Mode will switch-off after pressing any key of the remote control handset (with exception of the "cursor-up", "cursor-down", "P+" and "P-" keys), or the buttons on the TV or by switching off the TV set with the mains switch. By means of the "P+" and "P-" keys switching between different presets is possible.

Detailed explanation of the Customer service Mode

After switching on the Customer Service Menu the following screen will appear:



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Figure 5-17

- Line 1:
Software version; the build in software version (AAAABCX.Y)
 - AAAA= MG31(chassis name)
 - B = E (Europe)
 - C = 1 (language cluster)
 - X = main version number
 - Y = sub version number
 Details on the software version can be found in the chapter "Software Survey" of the publication "Product Survey - Colour Television".
- Line 2:
Code 1; gives the last 5 errors of the error buffer. As soon as the built-in diagnose software has detected an error the buffer is adapted.
- Line 3:
Code 2; gives the first 5 errors of the error buffer. As soon as the built-in diagnose software has detected an error the buffer is adapted.
The last occurred error is displayed on the leftmost position of code 2. Each error code is displayed as a 3 digit number. When less than 10 errors occur, the rest of the line(s) is(are) empty. In case of no errors the text "No Errors" is displayed. See paragraph 5.3 of this chapter for a description of the error codes.
- Line 4:
LS Volume; gives the Last Status of the volume as set by the customer for this selected transmitter. The value can vary from 0 (volume is minimum) to 24 (volume is maximum). Volume values can be changed via the volume key on the remote control handset.
- Line 5:
LS Brightness; gives the Last Status of the brightness as set by the customer for this selected transmitter. The value can vary from 0 (brightness is minimum) to 63 (brightness is maximum). Brightness values can be changed via the "cursor left" and "cursor right" keys on the remote control handset after pressing the "menu" button and selecting "picture" and "brightness".
- Line 6:
LS Contrast; gives the Last Status of the contrast as set by the customer. The value can vary from 0 (contrast is minimum) to 63 (contrast is maximum). Contrast values can be changed via "cursor left" and "cursor right" keys on the remote control handset after pressing the "menu" button and selecting "picture" and "contrast".
- Line 7:
LS Colour; gives the Last Status of the colour saturation, as set by the customer. The value can vary from 0 (colour is minimum) to 63 (colour is maximum). Colour values can be changed via "cursor left" and "cursor right" keys on the

remote control handset after pressing the "menu" button and selecting "picture" and "colour".

- Line 8:
LS Headphone; gives the Last Status of the headphone volume, as set by the customer. The value can vary from 0 (volume is minimum) to 24 (volume is maximum). Headphone volume values can be changed via the "cursor left" and "cursor right" keys on the remote control handset after pressing the "menu" button and selecting "sound" and "headphone".
- Line 9:
Sharpness; gives the sharpness value. The value can vary from 0 (sharpness is minimum) to 7 (sharpness is maximum). In case of bad antenna signals a too high value of the sharpness can result in a noisy picture. Sharpness values can be changed via the "cursor left" and "cursor right" keys on the remote control handset after pressing the "menu" button and selecting "picture" and "sharpness".
- Line 10:
Dolby; indicates whether the received transmitter transmits Analog Dolby, Digital Dolby or no Dolby. This is represented in the display by "Prologic", "Digital" or "None". Attention: The presence of Dolby can only be tested by the software on the Dolby signalling bit. If a Dolby transmission is therefore received without a Dolby signalling bit, then this indicator will show "None" even though such a Dolby transmission is received.
- Line 11:
Surround Mode; indicates the by the customer selected surround mode. In case the set is a Non-Dolby set there will be displayed "0". If it is a Dolby-set then is displayed: "Stereo", "3Dsurround", "Pro Logic", "DD (digital dolby)", "Front3Stereo", "Hall" or "Off". For Dolby-set surround mode can be changed via the "cursor left" and "cursor right" keys on the remote control handset after pressing the "menu" button and selecting "sound" and "Surround settings".
- Line 11a:
Tuner frequency; indicates the frequency the selected transmitter is tuned to. The tuner frequency can be changed via the "cursor left" and "cursor right" keys for fine tune or by entering directly with the digit keys 0 to 9 on the remote control handset after opening the installation menu and selecting "manual installation". The installation menu can be opened by pressing "timer" and "enlarge" at the same time. By means of the "cursor-down" knob on the remote control handset the Customer Service Menu 2 will appear. By means of the "cursor-up" knob on the remote control handset the Customer Service Menu 1 will appear again. Customer Service Menu 2 represents following information:

| CUSTOMER SERVICE MENU 2 | |
|-------------------------|-------------------------|
| 12 | Rear Volume . |
| 13 | Centre Volume . |
| 14 | DNR ... |
| 15 | Noise Figure . |
| 16 | Digital option |
| 17 | Colour System |
| 18 | TV System |
| 19 | Audio System |
| 20 | Tuned bit |
| 21 | Speaker config. |
| 22 | Digital Sources |
| 23 | Rear volume left |
| 24 | Rear volume right |

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Figure 5-18

- Line 12:
Rear Volume; gives the volume value of the surround sound loudspeakers. This value can vary from 0 (minimum volume) to 63 (maximum volume). Rear volume can be changed via the "cursor left" and "cursor right" keys on the remote control handset after pressing the "menu" button and selecting "sound", "Surround settings" and selecting "Rear volume". This feature is only available when surround mode is in "Dolby Pro Logic" or "Hall".
- Line 13:
Centre Volume; gives the volume value of the centre loudspeakers. This value can vary from 0 (minimum volume) to 63 (maximum volume). Centre volume can be changed via the "cursor left" and "cursor right" keys on the remote control handset after pressing the "menu" button and selecting "sound", 'Dolby Pro Logic' and selecting "centre volume". This feature is only available when surround mode is in "Dolby Pro Logic", "Dolby 3 Stereo" or "3D surround".
- Line 14:
DNR (Dynamic Noise Reduction); gives the setting of the DNR for the selected transmitter. The following selections are possible:
 - "off", "min", "med" or "max"
 - "off" or "automatic" (MG3.1E with "Automatic Noise Reduction").
 The DNR can be changed via the "DNR" key on the remote control handset.
- Line 15:
Noise Figure; gives the selected noise ratio for this selected transmitter. This value can vary from 0 (good signal) to 127 (average signal) and to 255 (bad signal). This only works in case the DNR selection is "off/automatic".
- Line 16:
Digital Option; gives the selected digital mode, "100Hz", "Digital Scan" or "Natural Motion". Digital option can be changed via the "cursor left" and "cursor right" keys on the remote control handset after pressing the "menu" button and selecting "picture" and "digital options".
- Line 17:
Colour System; gives information about the colour system of the selected transmitter.
 - Black and white: No colour carrier received
 - PAL: PAL signal received
 - SECAM: SECAM signal received
 - NTSC: NTSC signal received
- Line 18:
TV System; gives information about the video system of the selected transmitter.
 - BG: BG signal received
 - DK: DK signal received
 - I: PAL I signal received
 - L: SECAM L signals received
 - M38.9: NTSC M signal received with video carrier on 38.9 MHz
 - MN: NTSC M signal received
- Line 19:
Audio System; gives information about the audio system of the selected transmitter.
 - Mono: Mono sound received
 - Stereo: Stereo sound received
 - Dual I: Language I received
 - Dual II: Language II received
 - Digital Mono: Digital mono sound is received
 - Digital Stereo: Digital stereo sound is received
 - Digital Dual I: Digital language I is received
 - Digital Dual II: Digital language II is received
- Line 20:

Tuned Bit; gives information about the tuning method of the stored preset. If the value is "On" the preset is stored via manual entry of the frequency when a transmitter was not present on that frequency. In that case the TV will attempt to perform a micro-search every time the preset number is selected. Once the micro-search has been successful the Tuned Bit will be set to "Off".

- Line 21:
Speaker configuration; gives the configuration setting for the speakers. In case the set is a Non-Dolby set there will be displayed "0". If it is a Dolby-set then is displayed: "Full internal", "L/R external", "Surround external" or "Full external". For the Dolby-set the speaker configuration can be changed via the "cursor left" and "cursor right" keys on the remote control handset after opening the installation menu and selecting "set-up". The installation menu can be opened by pressing "timer" and "enlarge" at the same time.
- Line 22:
Digital Source; gives the configuration setting for the digital source. This can be "Front", "Ext1", "Ext1+Dig.Audio", "Ext2", "Ext3", "Ext4" or "None". If one of these is selected the starting point is a top quality signal on that input and a number of settings are therefore changed automatically. The digital source can be changed via the "cursor left" and "cursor right" keys on the remote control handset after opening the installation menu and selecting "set-up". The installation menu can be opened by pressing "timer" and "enlarge" at the same time.
- Line 23:
Rear Volume Left (only valid when dolby digital option is 'on'); gives the volume value of the left surround sound loudspeaker. This value can vary from 0 (minimum volume) to 63 (maximum volume).
Rear volume left can be changed via the "cursor left" and "cursor right" keys on the remote control handset after pressing the "menu" button and selecting "sound", "Surround settings" and selecting "Rear volume left".
- Line 24:
Rear Volume Right (only valid when dolby digital option is 'on'); gives the volume value of the right surround sound loudspeaker. This value can vary from 0 (minimum volume) to 63 (maximum volume).
Rear volume right can be changed via the "cursor left" and "cursor right" keys on the remote control handset after pressing the menu button and selecting "sound", "Surround settings" and selecting "Rear volume right".

Problems and solving tips

The procedures to change the value or the status of the different settings is described in the paragraph 'Detailed explanation of the Customer Service Mode'.

Picture problems

Worse picture quality in case of pictures of digital sources. (e.g. DVD)

Check line 22 "Digital sources". Line 22 will give the indication "Front", "Ext1", "Ext1+dig.Audio", "Ext2", "Ext3", "Ext4" or "None". Check if the digital source is really connected to the indicated external input. If not change the setting into correct external input.

Snowy/noisy picture

1. Check line 15 "Noise Figure". In case the value is 127 or higher and the value is also high on other programs check the aerial cable/aerial system.
2. Check lines 9 "Sharpness", 14 "DNR" and 15 "Noise Figure". In case the value of line 9 is 3 or 4 and the value of line 15 is high (127 or higher), lower the value of line 9 "sharpness" and switch DNR (line 14) to "automatic", "on" or to a higher value.

Picture too dark

1. Press "Smart Picture" button on the Remote Control handset. In case picture improves, raise the brightness value or raise the contrast value. The new value(s) are automatically stored for all TV channels.
2. After switching on the Customer Service Mode the picture is OK. Raise the brightness value or raise the contrast value. The new value(s) are automatically stored for all TV channels.
3. Check lines 6 "LS Brightness" and 7 "LS Contrast". The value of line 6 is low (<10) or the value of line 7 is low (<10). Raise the brightness value or raise the contrast value.

Picture too bright

1. Press "Smart Picture" button on the Remote Control handset. In case picture improves, reduce the brightness value or reduce the contrast value. The new value(s) are automatically stored for all TV channels.
2. After switching on the Customer Service Mode the picture is OK. Reduce the brightness value or reduce the contrast value. The new value(s) are automatically stored for all TV channels.
3. Check lines 6 "LS Brightness" and 7 "LS Contrast". The value of line 6 is high (>40) or the value of line 7 is high (>50). Reduce the brightness value or raise the contrast value.

Fading picture

Digital scan effect. Check line 14 "DNR". The status of "DNR" is 'med' or 'max'. Reduce "DNR" to 'min' or switch off the digital scan.

White line around picture elements and text

1. Press "Smart Picture" button on the Remote Control handset. In case picture improves, reduce the sharpness value. The new value(s) are automatically stored for all TV channels.
2. After switching on the Customer Service Mode the picture is OK. Reduce the sharpness value. The new value(s) are automatically stored for all TV channels.
3. Check line 8 "Sharpness". Reduce the sharpness value. The new value(s) are automatically stored for all TV channels

No picture.

Check line 20 "Tuned bit". In case the value is 'On', install the required program again. Open the installation menu by pressing "timer" and "enlarge" at the same time and perform manual installation.

Blue picture.

No proper signal is received. Check the aerial cable/aerial system.

Blue picture and/or unstable picture.

A scrambled or decoded signal is received.

Black and white picture.

Check line 5 "LS colour". In case the value is low (<10) raise the value of colour. The new value(s) are automatically stored for all TV channels.

No colours/colour lines around picture elements.

1. Check lines 17 "Colour System" and 18 "TV System". In case line 17 is 'PAL' and line 18 is 'M 38,9', the installed system for this preset is 'USA', while 'West Europe' is required. Install the required program again. Open the installation menu by pressing "timer" and "enlarge" at the same time and perform manual installation. Select 'System; West Europe'.

- In case line 17 is 'PAL' and line 18 is 'L', the installed system for this preset is 'France', while 'West Europe' is required. Install the required program again. Open the installation menu by pressing "timer" and "enlarge" at the same time and perform manual installation. Select 'System; West Europe'.

No colours/noise in picture

- Check lines 17 "Colour System" and 18 "TV System". In case line 17 is 'Black and White' and line 18 is 'BG', the installed system for this preset is 'West Europe', while 'USA' is required. Install the required program again. Open the installation menu by pressing "timer" and "enlarge" at the same time and perform manual installation. Select 'System; USA'.
- In case line 17 is 'Black and White' and line 18 is 'L', the installed system for this preset is 'France', while 'USA' is required. Install the required program again. Open the installation menu by pressing "timer" and "enlarge" at the same time and perform manual installation. Select 'System; USA'

Colours not correct.

Check lines 17 "Colour System" and 18 "TV System". In case line 17 is 'PAL' and line 18 is 'L', the installed system for this preset is 'France', while 'West Europe' is required. Install the required program again. Open the installation menu by pressing "timer" and "enlarge" at the same time and perform manual installation. Select 'System; West Europe'.

Colours not correct/unstable picture.

Check lines 17 "Colour System" and 18 "TV System". In case line 17 is 'SECAM' and line 18 is 'BG', the installed system for this preset is 'USA', while 'France' is required. Install the required program again. Open the installation menu by pressing "timer" and "enlarge" at the same time and perform manual installation. Select 'System; France'.

Unstable picture.

Check lines 17 "Colour System" and 18 "TV System". In case line 17 is 'SECAM' and line 18 is 'M 38,9', the installed system for this preset is 'West Europe', while 'France' is required. Install the required program again. Open the installation menu by pressing "timer" and "enlarge" at the same time and perform manual installation. Select 'System; France'.

Menu text not sharp enough.

- Press "Smart Picture" button on the Remote Control handset. In case picture improves, reduce the contrast value. The new value(s) are automatically stored for all TV channels.
- After switching on the Customer Service Mode the picture is OK. Reduce the contrast value. The new value(s) are automatically stored for all TV channels.
- Check line 7 "LS Contrast". The value of line 7 is high (>50). Reduce the contrast value.

Sound problems

No sound from left and right speaker.

- Press "Smart Sound" button on the Remote Control handset. In case sound improves, raise the volume value. The new value(s) are automatically stored for all TV channels.
- After switching on the Customer Service Mode the volume is OK. Raise the volume value. The new value(s) are automatically stored for all TV channels.
- Check line 4 "LS Volume". The value is low. Raise the value of "Volume". The new value(s) are automatically stored for all TV channels.

Sound too loud for left and right speaker.

- Press "Smart Sound" button on the Remote Control handset. In case sound improves, reduce the volume value. The new value(s) are automatically stored for all TV channels.
- After switching on the Customer Service Mode the volume is OK. Reduce the volume value. The new value(s) are automatically stored for all TV channels.
- Check line 4 "LS Volume". The value is high. Reduce the value of "LS Volume". The new value(s) are automatically stored for all TV channels.

No sound from "centre" speaker.

Check line 12 "Centre Volume". The value is low. Raise the value of the "Centre Volume".

In case of a Dolby set check line 11 "Surround mode". The centre speaker is only active in the surround modes 3Dsurround, Prologic, Front3stereo and DD

Sound too loud from "centre" speaker.

Check line 12 "Centre Volume". The value is high. Reduce the value of the "Centre Volume"

No sound from "rear" speakers.

- Check line 11 "Surround mode". In case line 11 is "Off" or "Hall" change the surround mode into 3Dsurround, Prologic, Front3stereo or DD.
- Check line 12 "Rear volume". The value is low. Raise the value of "Rear volume". The new value(s) are automatically stored for all TV channels.
- Check lines 23 "Rear volume left" and 24 "Rear volume right". The values are low. Raise the values of "Rear volume left" and "Rear volume right". The new value(s) are automatically stored for all TV channels.
- Check if the surround boxes receives sound, the green led should be on.
- Check if the right RF-channel is chosen. Look at the bottom of the active box for the RF-channel of the surround speakers. Check the installed RF-channel in the installation menu. If this RF-channel is different change it to the correct one.

Diagnose Mode (only active during transmission of error codes and diagnose 99)

This mode is activated by the DIAGNOSE command on the DST for reading the error codes and erasing the error buffer by the DST even when the set is in protection and so there is no picture (assuming that the power supply and the control part are working). For activation see paragraph 5.3. The diagnose Mode is only a temporarily mode (the set will go back to the previous mode), and can not be switched on permanently. Note: The diagnose mode can not be entered if the SAM is activated.

ComPair

ComPair (Computer Aided Repair) is a service tool for Philips Consumer Electronics products. ComPair is a further development on the DST service remote control allowing faster and more accurate diagnostics. ComPair has three big advantages:

- ComPair helps you to quickly get an understanding how to repair the MG3.1E in short time by guiding you step by step through the repair procedures.
- ComPair allows very detailed diagnostics (on I2C level) and is therefore capable of accurately indicating problem areas. You do not have to know anything about I2C commands yourself; ComPair takes care of this.
- ComPair speeds up the repair time since it can automatically communicate with the MG3.1E (when the micro processor is working) and all repair information is directly available. When ComPair is installed together with

the SearchMan MG3.1E electronic manual, schematics and PCBs are only a mouse-click away.

ComPair consists of a Windows based fault finding program and an interface box between PC and the (defective) product. The ComPair interface box is connected to the PC via a serial or RS232 cable. In case of the MG3.1E chassis, the ComPair interface box and the television communicate with each other via bi-directional infrared signal.

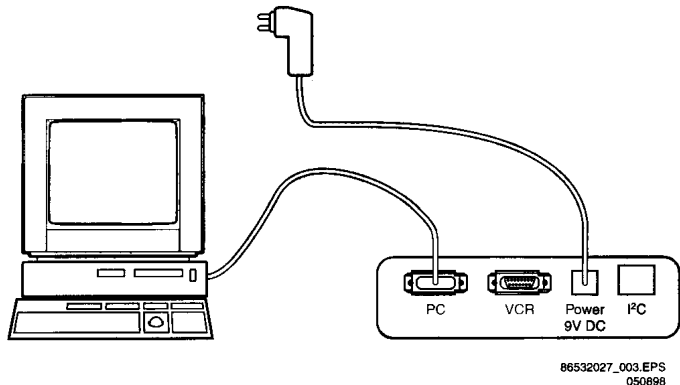


Figure 5-19

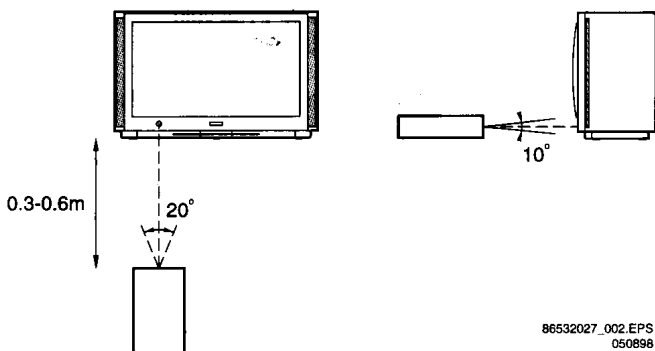


Figure 5-20

The ComPair fault finding program is able to determine the problem of the defective television. ComPair can gather diagnostic information in 2 ways:

1. Communication to the television (automatic)
2. Asking questions to you (manually)

ComPair combines this information with the repair information in its database to find out how to repair the MG3.1E.

Ordering ComPair

ComPair-ordercodes:

- Starterkit Compair+SearchMan software + Compair interface (excluding transformer): 4822 727 21629
- Compair interface (excluding transformer): 4822 727 21631
- Compair transformer (continental) Europe: 4822 727 21632
- Compair transformer United Kingdom: 4822 727 21633
- Starterkit Compair software: 4822 727 21634
- Starterkit SearchMan software: 4822 727 21635
- Compair interface cable: 4822 727 21641

Automatic information gathering

Step-by-step start up. Under normal circumstances, a fault in the power supply or an error during start-up will switch the television to protection-mode. ComPair can take over the initialisation of the television. In this way it is possible to distinguish which part of the start-up routine (hence which circuitry) is causing the problem.

Reading out the error buffer, ComPair can automatically read out the contents of the entire error buffer.

Diagnosis on I2C level. ComPair can access the I2C bus of the television without a physical connection. ComPair can send and receive infrared commands to the micro controller of the television. These commands are translated by the controller to I2C commands and vice versa. In this way it is possible for ComPair to communicate (read and write) to devices on the I2C busses of the MG3.1E.

Manual information gathering

Automatic diagnosis is only possible if the micro controller of the television is working correctly and only to a certain extend. When this is not the case, ComPair will guide you through the fault finding tree by asking you questions and showing you examples. You can answer by clicking on a link (e.g. text or an oscillogram) that will bring you to the next step in the faultfinding process.

A question could be: Do you see snow? (Click on the correct answer)

YES / NO

An example can be: Measure testpoint I7 and click on the correct oscillogram you see on the oscilloscope

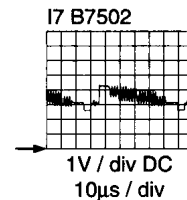


Figure 5-21

By a combination of automatic diagnostics and an interactive question/answer procedure, ComPair will enable you to find most problems in a fast and effective way.

Additional features

Beside fault finding, ComPair provides some additional features like:

- Uploading/downloading of presets
- Managing of preset lists
- Emulation of the Dealer Service Tool

SearchMan (electronic service manual)

When ComPair is installed in combination with SearchMan, all schematics and PCBs will be directly available while you repair a television if you click on a PCB or schematic link.

Example: Measure the DC voltage on C2568 (PCB/schematic) on the small signal level.

Clicking on PCB will automatically pop-up a picture of the PCB with the location of C2568 marked. Clicking on schematic will automatically pop-up the schematic with the location of C2568 marked.

Stepwise Startup /Shutdown feature of set can be used via Compair

Stepwise startup explanation

Via ComPair the stepwise startup (see also chapter 4) can be realised. This is very helpful when a protection is activated.

| State | Description mode | Display leds | Errorcode possible |
|-------|--|----------------------|--------------------|
| 0 | Low Power Standby/uC in Stby | Red on | None |
| 1 | High Power Standby/set in Stby | Red 0.5Hz | None |
| 2 | Supply on. Protections 5V2, 8V6, DC-Prot activated. | Orange/Green 0.25 Hz | 67,68,76 |
| 3 | ICs initialized (Sound). Protection FBX-, Edric, Tuner activated | Orange/Green 0.5 Hz | plus 77, 78, 80 |
| 4 | EHT startup. No blackcurrent stabilisation. Protections VFB, HFB, LDP, BC-prot activated (blanked picture) | Orange/Green 2 Hz | plus 70,71,73,74 |
| 5 | TV operates, unblanked picture | Orange/Green 10 Hz | |

Stepwise shutdown explanation

In the stepwise shutdown mode, state 2 is skipped. (ICs can not be de-initialised).

| State | Description mode | Display leds (Note*) | Prot. de-activated |
|-------|--|----------------------|------------------------|
| 5 | TV operates, unblanked picture | Orange/Green 10 Hz | - |
| 4 | No blackcurrent stabilisation (no picture). All protections are enabled. | Orange/Green 2 Hz | - |
| 3 | ICs stay initialised. (Sound). All protections are off. | Orange/Green 0.5 Hz | 74,73,71,70 |
| 1 | High Power Standby/set in Stby | Red 0.5Hz | 80, 78, 77,76,68,67 |
| 0 | Low Power Standby/uC in Stby | Red on | - |

Note: When set is in stepwise-mode and due to stepping-up a protection is activated, the set really will go into protection (blinking red led). The set will not leave the stepwise-mode however. By stepping up the set can be activated again, until state X, where protection was activated. At state (X-1) diagnostic measurements can be performed.

- If the error buffer of MG3.1E is empty, no errors are displayed by the DST; the display remains blank.

5.3 Error codes

5.3.2 Clearing the error buffer

The error buffer can be cleared in 2 ways:

- In the SAM by selecting the item RESET ERROR BUFFER in the main menu.
- By the "DIAGNOSE 99" command of the DST (in all modes except the SAM). Press the DIAGNOSE key on the DST, followed by 9 and 9 and then .

Note: When error buffer is full (10 codes), no new error can be stored anymore. However of every error raised is monitored how long it exists in the error buffer. When for any reason a false raised error exists in the buffer, it will be deleted after 50 hours. If this error still is actual after 50 hours, it will be raised again. In this way is safeguarded that history of error codes is stored. Sometimes it is an option to first write down the error buffer content, reset the buffer, and look again which error codes are generated by the set.

5.3.1 Reading error codes from the error buffer

The error buffer can be read in 2 ways:

- On the screen via the Service Alignment Mode (SAM). In case picture is OK, the error buffer can be read easiest via the SAM. In the main menu of the SAM the last 10 different error codes occurred are displayed. The most recent detected error code is displayed on the left side, so e.g.:

0 0 0 0 0 means no error codes present in the buffer

3 0 0 0 0 means one error code present in the buffer; error code 3

2 3 0 0 0 means two error codes present in the buffer; error code 2 is the most recent, error code 3 is detected before 2

- On the display of the DST. If an error has been detected by the MG3.1E chassis, the set might go into protection. Without the presence of a picture the errors can be read by the DST, as long as the main-processor is still active (red LED blinking fast (3Hz).

To transmit the errors from the TV to the DST:

- Press the "DIAGNOSE" key (in all modes except the SAM).
- Press "1" to view the last error detected.
- Hold the DST 5 to 10 cm in front of the stand-by LED of the set (the IR-sending LED of MG3.1E is located near the stand-by LED).
- Press the "OK" key.

The error is represented by a 1 or 2 digit number. The 1 or 2 digits on the DST are displayed sequentially, with a pause before it is repeated. The digit after the pause is the 1st digit. If the display reads 4 - 7, the error code is 47. To read other error codes, press "DIAGNOSE" and one of the other digit keys.

Note:

- If the DST cannot communicate to the MG3.1E in a proper way, ERROR 2 is shown in the display of the DST. Trying again by changing the DST position a little bit might help.

5.3.3 Error code table

| Error | Device | Description | Defective item | Diagram | Defective module indication |
|-------|----------------------------|--|----------------|--------------|-----------------------------|
| 2 | ST24E32 or M24C32 | Non volatile memory | IC7008 | K7 | Control |
| 3 | SAA5801 | OTC2.5 microprocessor/TXT | IC7003 | K7 | Control |
| 5 | UV1316 | Tuner | U1102 | K1 | Tuner |
| 10 | TEA6415 | I/O source select video | IC7208 | K8 | Source select |
| 11 | TEA6422 | I/O source select audio | IC7777 | K8 | Source select |
| 15 | TDA9320H | HIP I/O-video processing | IC7501 | K1 | Chroma IF I/O |
| 20 | TDA9330H | HOP video control/deflection processor | IC7300 | K6 | Video Controller |
| 21 | TDA9178 | LTP Peaking | IC7402 | K6 | Video Controller |
| 25 | MSP3410D | ITT sound processor | IC7751 | K3 | Audio module |
| 26 | SAA7712H | SEDSP dolby processor | IC7770 | K4 | Audio module |
| 35 | UV1316 | FDS Tuner | U1102 | M1 | Video Dual Screen Panel |
| 36 | PCF8574 | FDS I/O Expander | IC7860 | M2 | Video Dual Screen Panel |
| 37 | SAB9079 | FDS Popov | IC7700 | M4 | Video Dual Screen Panel |
| 38 | TDA9320 | FDS HIP2 | IC7501 | M1 | Video Dual Screen Panel |
| 39 | M24C04 | FDS NVM | IC7991 | M1 | Video Dual Screen Panel |
| 40 | 83C751 | Cordless Transmitter processor | IC7105 | R | Surround Transmitter Panel |
| 41 | TDA7309 | FDS Headphone | IC7620 | M5 | Video Dual Screen Panel |
| 50 | SAA4978H | FBX Picnic | IC7611 | L1 | Feature Box |
| 53 | SAA4992 | FBX Falconic | IC7626 | L3 | Feature Box |
| 54 | SAA4997 | FBX Veric | IC7621 | L2 | Feature Box |
| 55 | SAA4996 | FBX Macpactic | IC7616 | L2 | Feature Box |
| 56 | 83C654 | MCS processor | IC7803 | N3 | Digital Audio Module |
| 57 | TDA7438 | MCS SOFAC L/R | IC7540 | N8 | Digital Audio Module |
| 58 | TDA7438 | MCS SOFAC L/R | IC7600 | N9 | Digital Audio Module |
| 59 | TDA7438 | MCS SOFAC L/R | IC7570 | N10 | Digital Audio Module |
| 61 | PCF8574 | MCS I/O expander | IC7690 | N16 | Digital Audio Module |
| 65 | Slow IC bus blocked | | see fig 5-23 | | Slow IC bus blocked |
| 66 | Fast IC bus blocked | | see fig 5-23 | | Fast IC bus blocked |
| 67 | Supply 5V | 5V2 | see fig 5-22 | | +5 V Supply |
| 68 | Supply 8V | 8V6 | see fig 5-22 | | +8V Supply |
| 70 | V fail protection | VFB | fig 5-25 | A3/A1/ K6 | Vertical Flyback |
| 71 | H fail protection | HFB | fig 5-25 | A1/K6 | Horizontal Flyback |
| 73 | Line Deflection protection | LDP | fig. 5-24 | A1/K6 | Line Deflection |
| 74 | Beam Current Protection | BC-PROT | fig. 5-24 | K6/K7 | Beam Current |
| 76 | DC Sound protection | DC-PROT | fig. 5-26 | A4 | Sound Output |
| 77 | Feature box protection | FBX-PROT | fig. 5-22 | L1 | +3V (FBX) Supply |
| 78 | Edric protection | EDRIC-PROT | fig. 5-22 | K4 | +3V (Edric) Supply |
| 80 | Tuner protection | Tuner-PROT | fig. 5-22 | K1 | +8V (Tuner) Supply |

Remark: If on the DST the text "ERROR 2" is displayed, this means that the communication from the TV to the DST has failed

5.4 Protections

5.4.1 General

The MG3.1E "Protection Diagram" shows the structure of the protection system. See protection diagram (fig 5-22).

One micro-processor.

The MG3.1E has only one micro-processor (OTC) and it remains active during Standby. This because power of the microprocessor and the attached memory chip set is coming from the 3V3 supply, which is derived from the 5V Standby-circuitry. So in both power-on as in Standby-mode the microprocessor is connected to this power supply. The micro processor controls the Standby-line for switching on and off the main supply. In the standby-mode or in the protection-mode the Standby-line will open the contacts of relay 1002 via T7000 and T7001, this results in switching off the mains input to the main supply. In the mean time via T7550 the intensity of LED of the opto-coupler will increase, which results in a quick slow-down of the supply.

Two service-modes.

To get a quick diagnoses the MG3.1E has two service-modes implemented:

- The service default mode. Start-up of the set in a predefined way.
- The service alignment mode. In this mode items of the set can be adjusted via a menu and with the help of test patterns.

Both modes can be entered via the service connector on the SSP (connector 0356) or via the DST (dealer service tool) or via ComPair. The service alignment mode can not be entered by the DST in Standby, the set has to be in normal operation. Protection levels.

If a fault situation is detected an error code will be generated and if necessary the set will be put in the protection-mode. The protection-mode is indicated by blinking of the red LED. In some error cases the micro processor does not put the set in the protection-mode. The error codes of the error buffer can be read via the service-menu (SAM) or via the service send-LED and the DST/ ComPair. The DST diagnose functionality will force the set into the Service-standby, which is alike the usual Standby, however the micro-processor has to remain in normal operation completely.

The protections of the MG3.1E can be divided in 4 groups ;

- Protection from I2C-busses (Fast and Slow) or I2C-IC errors (device errors).
- Protection from the inputs on the OTC.
- Protections from the status register of the HOP (communicated via I2C-bus).
- DC-protection (sound amplifiers) monitored on OTC.

5.4.2 Protection from the I2C bus (fig. 5-23).

In normal operation some registers of the I2C controlled ICs will be refreshed every 200 msec. During this sequence three I2C-busses and the I2C-ICs as well will be checked. The I2C protection will take place if the SDA and SCL are whether short circuited to ground or to each other. An I2C error can also occur, if the power supply of the IC is missing.

5.4.3 Protection from the inputs on the OTC (fig.5-22).

If a protection is detected at an input of the OTC, all protection inputs of the OTC will be scanned every 200 msec. for 5 times. If the protection on one of the inputs is still activated after 1 sec., then the set will be put in the protection-mode. Before the scanning is started a so-called ESD-refresh will be carried out first, because the interrupt on one of the inputs may be caused either by a FLASH or by ESD. As a FLASH or ESD can harm the settings of some ICs, the HOP-HIP-ITT-EDRIC-TEA6417-

TEA6422-LTP-PICNIC and Tuner are initialised again to ensure the normal picture and sound conditions of the set.

- 8V6 and 5V2 protection (see detailed figure 5-24)

The presence of the 8V6 and 5V2 is sensed by the OTC. If the 8V6 and 5V2 is not present, then an error code is stored in the error buffer and the set is put in the protection-mode.

- BC protection (Beam Current). (See detailed figure 5-24)
- The beam current is measured by a circuit on the SSP. If the beam current exceeds a certain reference level, then via D6350 and T7351 the BC-input of the OTC is set to high. The error code is stored in the error buffer and the set is put in the protection-mode.

- DC-protection. (Fig. 5-26)

This is an urgent protection, the circuitry is located at the LSP. The output of the protection circuit will slow-down the power supply immediately via the opto-coupler and via the Standby-relay the supply will be switched into Standby-mode at once. To be able to store the error code in the error buffer the protection signals are also wired to the OTC.

The protection is activated in case of :

- Unbalance of +Vs and -Vs
- Unbalance of +V7 and -V7
- DC output present on one of the audio amplifiers
- Unbalance supplies on MCS-module

5.4.4 Protections from the status register of the HOP (fig. 5-22)

Every 200 msec. the status register of the HOP is read by the OTC via I2C. If a protection signal is detected on one of the inputs of the HOP, then the relevant error bit in the HOP register is set to 'high'. If the error bit is still 'high' after 1 sec., the OTC will store the error code in the error buffer and depending on the relevancy of the error bit the set will either go into the protection-mode or not.

- HFB: Horizontal Flyback (See detailed figure 5-25)

If the horizontal flyback is not present, then this is detected via the HOP. One status bit is set to 'high'. The error code is stored in the error buffer and the set will go into the protection mode

- VFB: Vertical Flyback (See detailed figure 5-25).

The HOP will blank the screen, if the vertical flyback signals are not present at the VFB-guard input. The relevant status bit will be set in the register of the HOP.

The error code is stored in the error buffer, in this case protection is not necessary.

- LDP-protection (Line Deflection Protection) (See detailed figure 5-24)

Two protection circuits are connected to the LDP-input of the HOP :

- Flash detection.

From the EHT-info, via D6341 and T7341 a flash will stop the H-drive and line output stage immediately. The FLS-bit in the status register of the HOP is set to 'high'. As the duration of a flash is very short the FLS-bit will be reset to 'low' again after the flash refresh, so via a slow start the set will be started again.

- LDP detection.

The EW-protection, coming from the line-output is also connected to the same input as above. The current through the EW-stage is measured by R3483 and R3484 on the LSP. The voltage across these precision resistors will increase in case of a failure at the line output stage. If the voltage becomes higher than 1 V, then the output of IC7484 will become 'high' and remains 'high' via D6485 and R3490.

Via D6344 the H-drive will be stopped. The FLS-bit will be set to 'high' and remains 'high' by means of the software filtering even after a flash refresh. The OTC will put the set in Standby-mode. The error code is stored in the error buffer and the set gets into the protection mode.

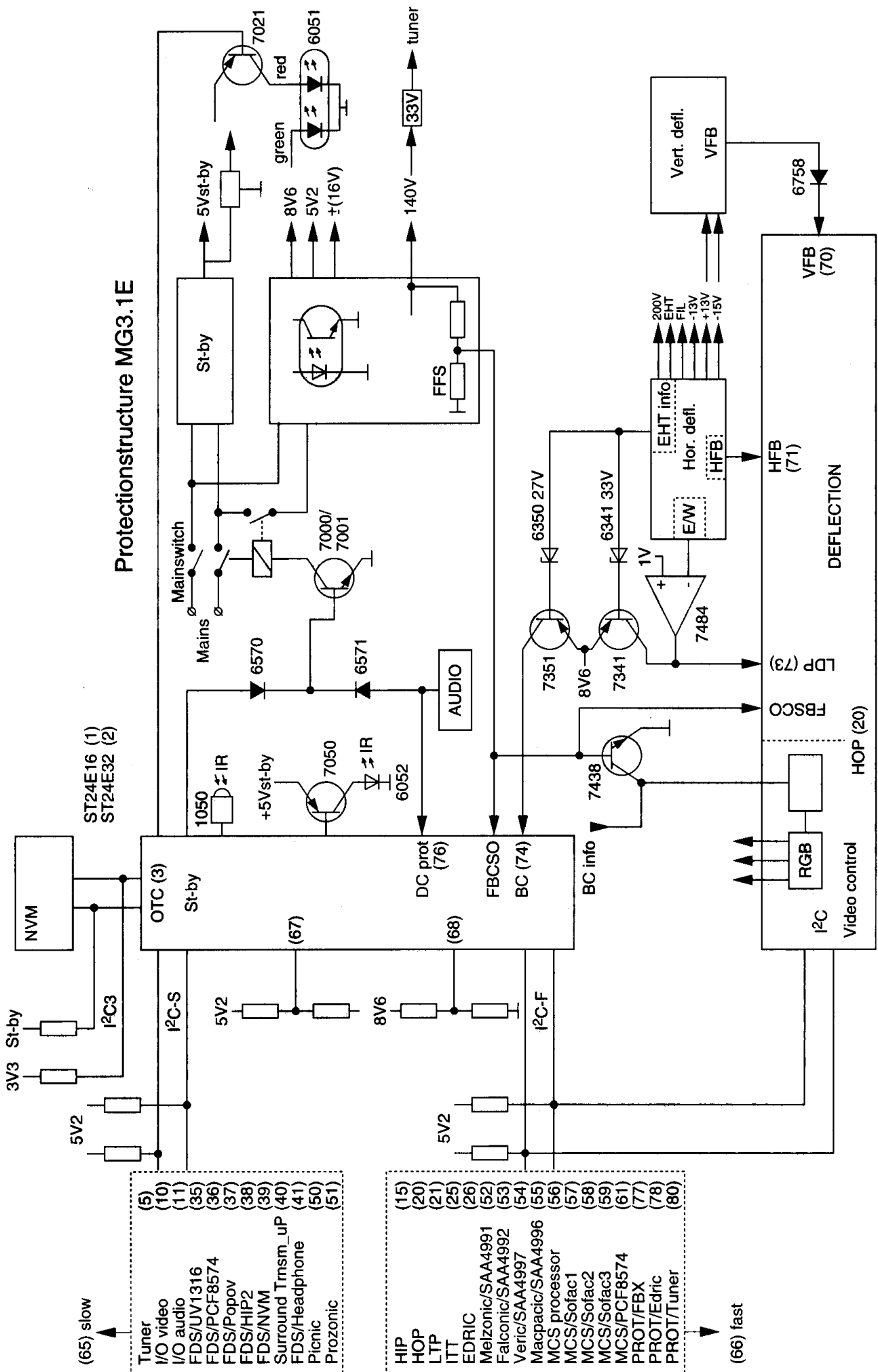
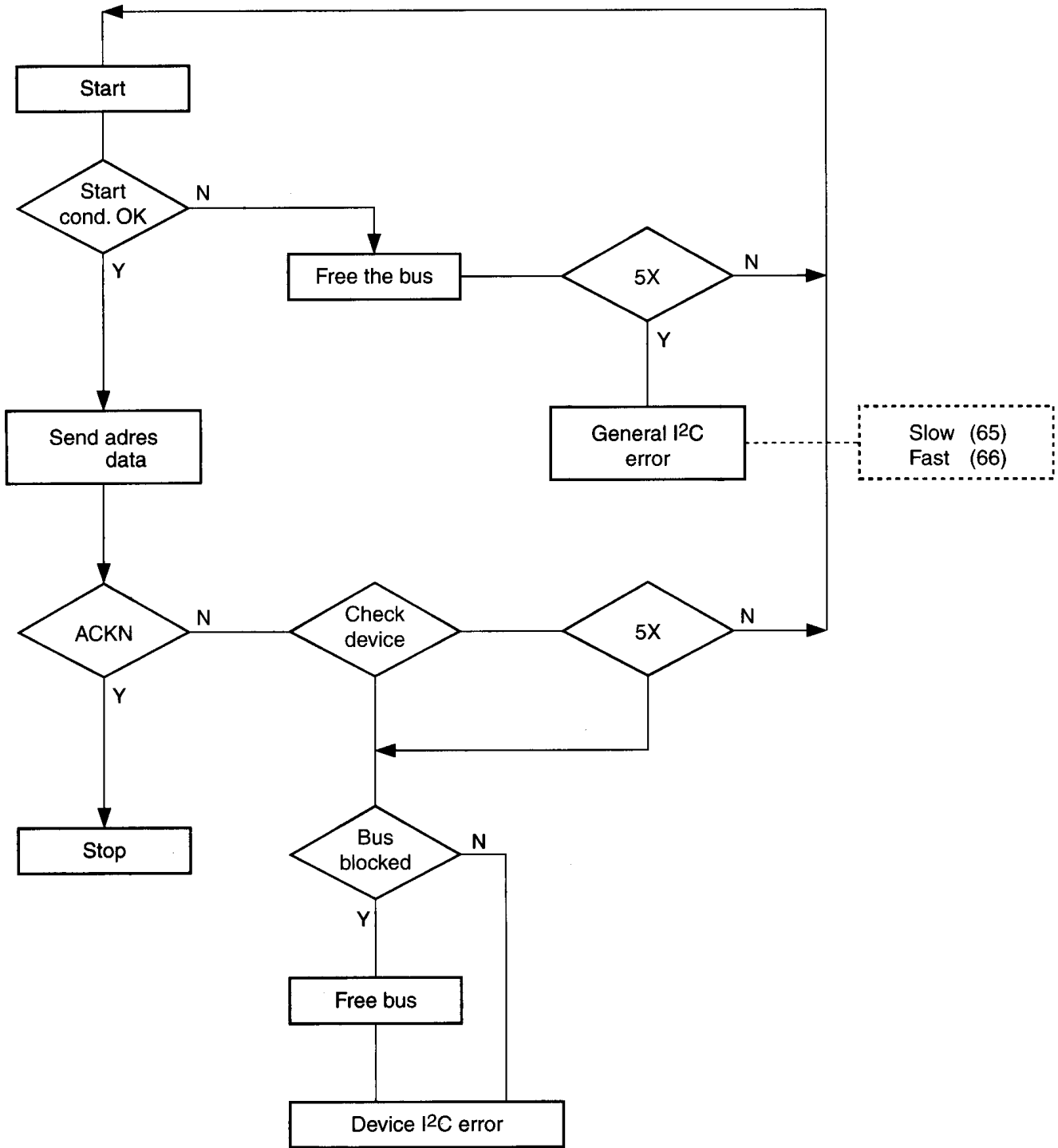


Figure 5-22

I²C drivers



| Slow | |
|------------------|------|
| 1102 (Tuner) | (5) |
| 7609 (Picnic) | (50) |
| 7608 (Prozonic) | (51) |
| 7501 (I/O Video) | (10) |
| Feature box | (77) |

| Fast | |
|--------------|------|
| 7402 (LTP) | (21) |
| 7770 (Dolby) | (26) |
| 7751 (ITT) | (25) |
| 7501 (HIP) | (15) |
| 7300 (HOP) | (20) |

| NVM-bus | |
|------------|------------|
| 7008 (NVM) | (1) (2) |

Figure 5-23

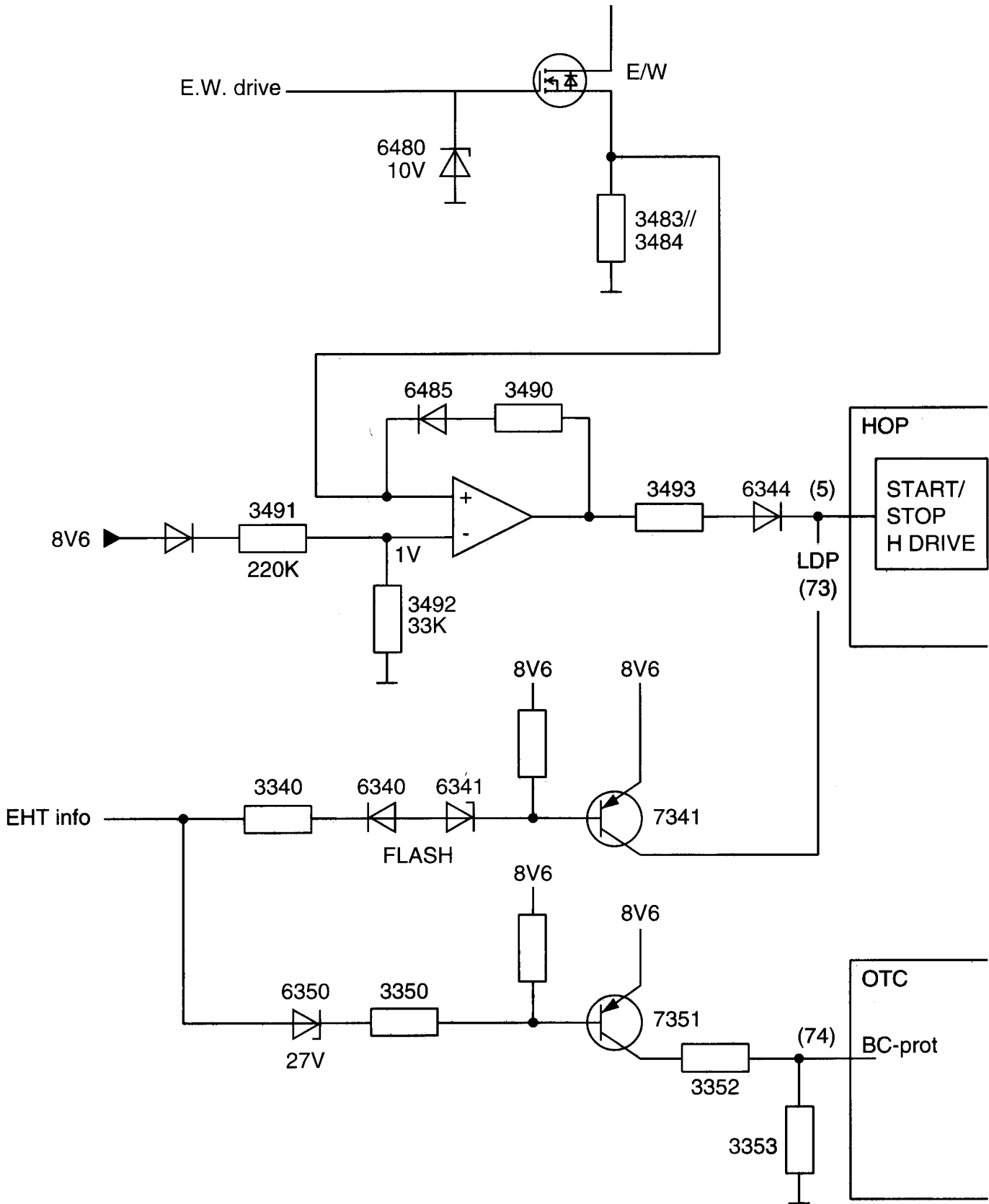
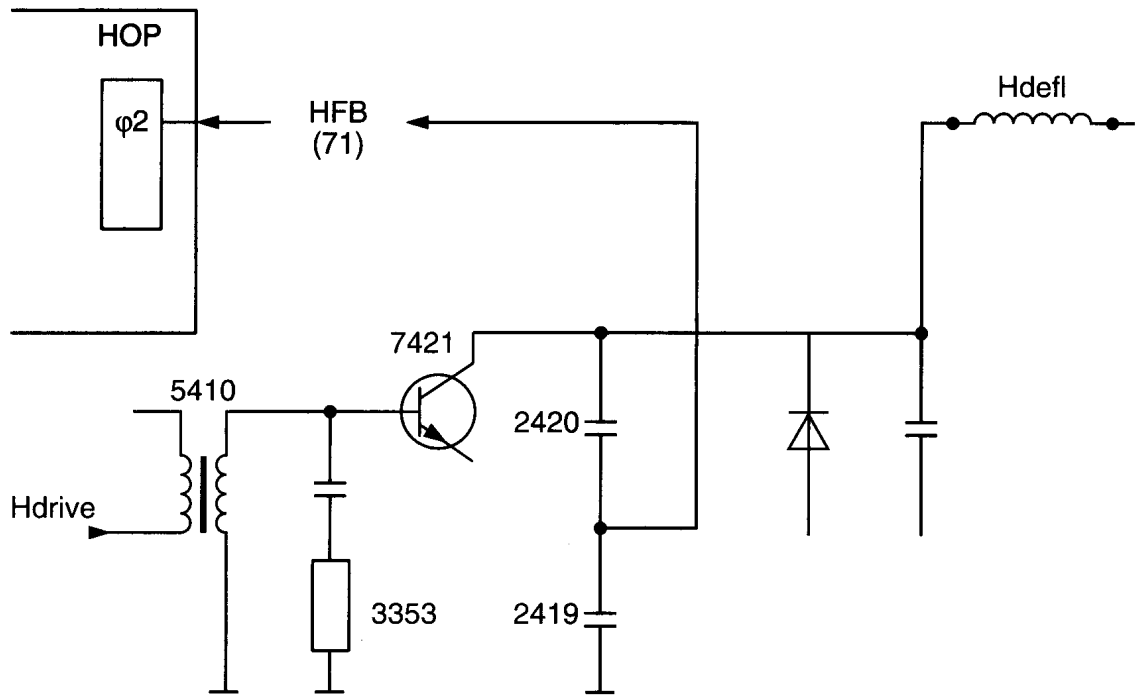


Figure 5-24

HFB horizontal fly-back



VFB vertical fly-back

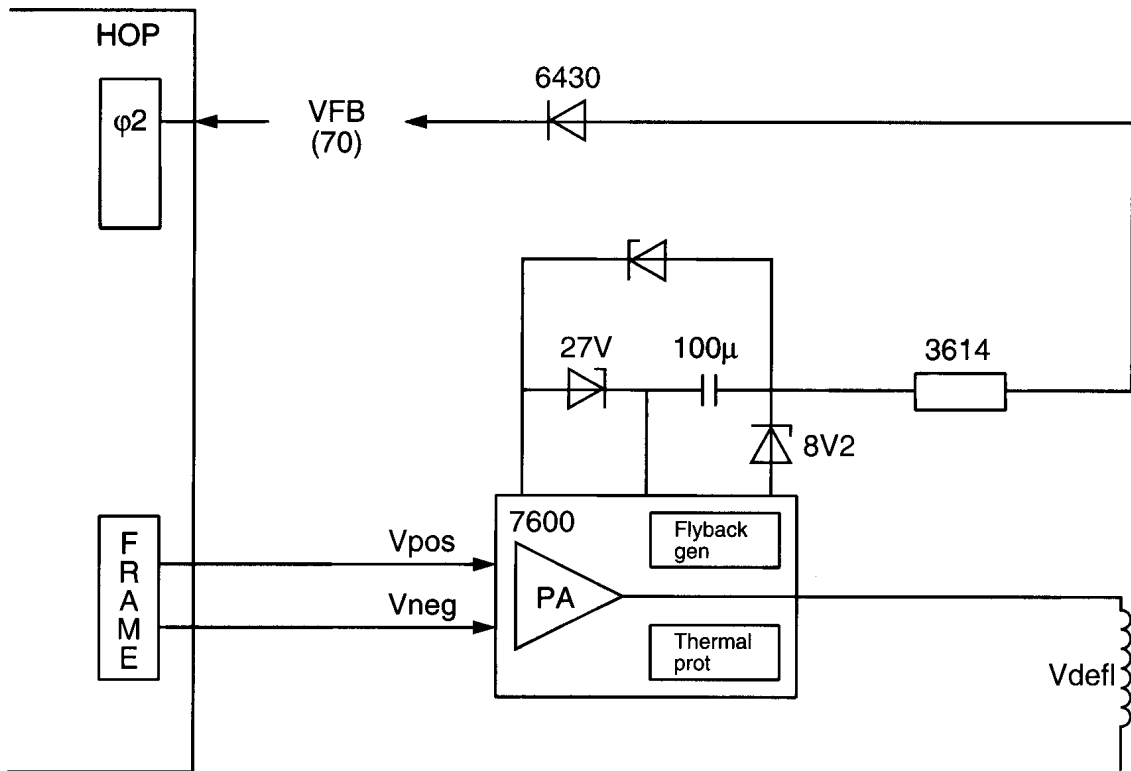
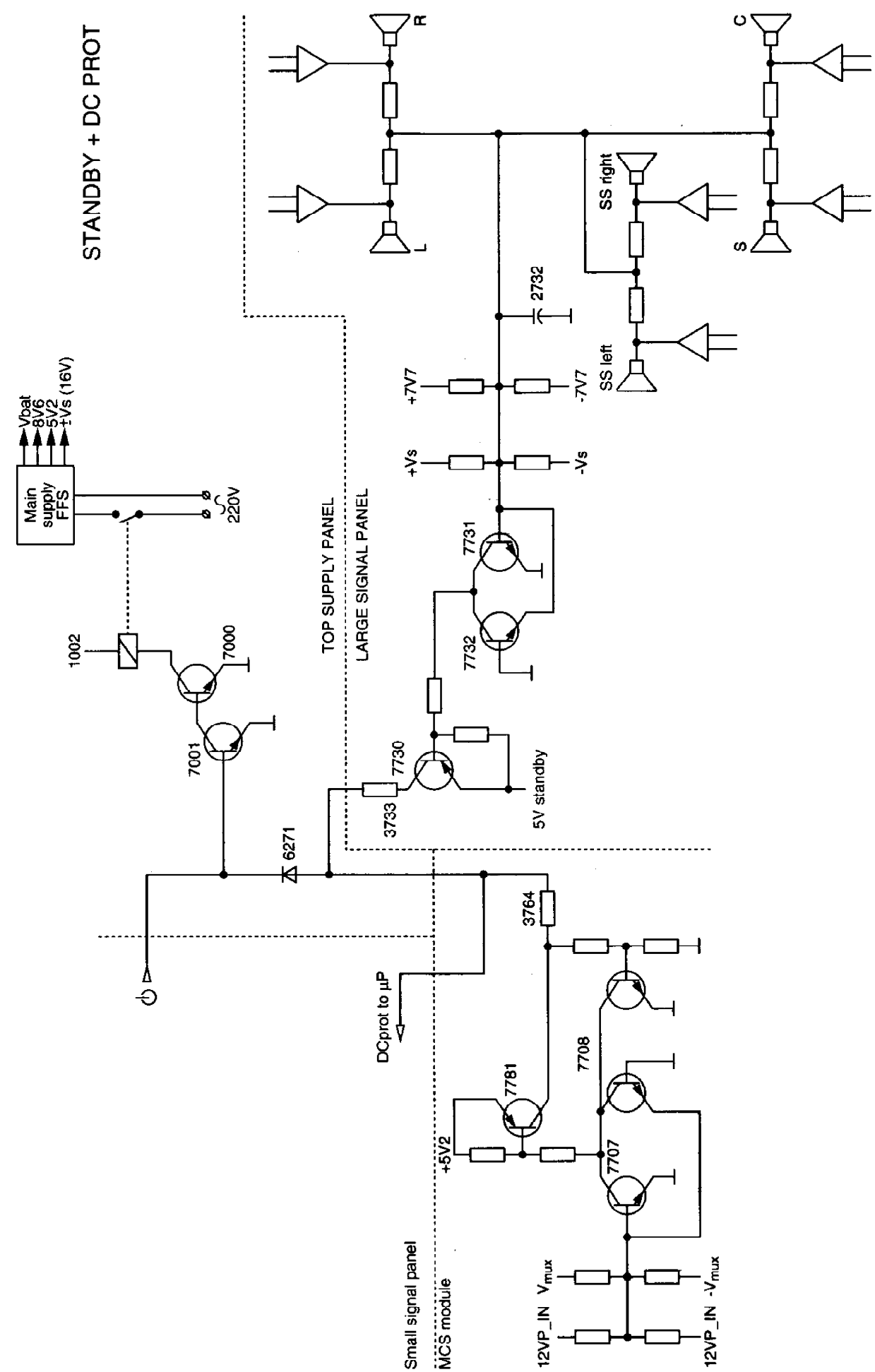


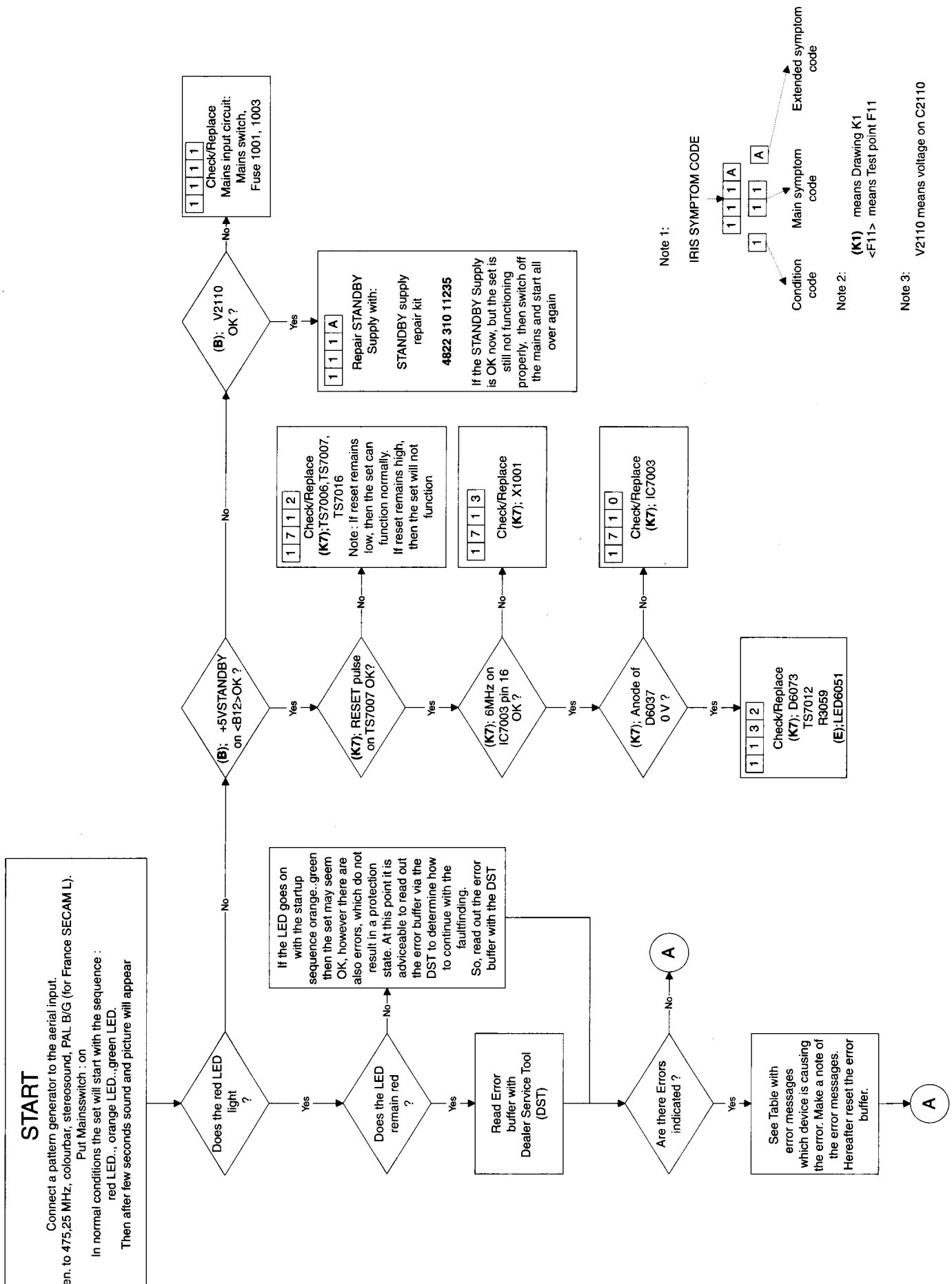
Figure 5-25

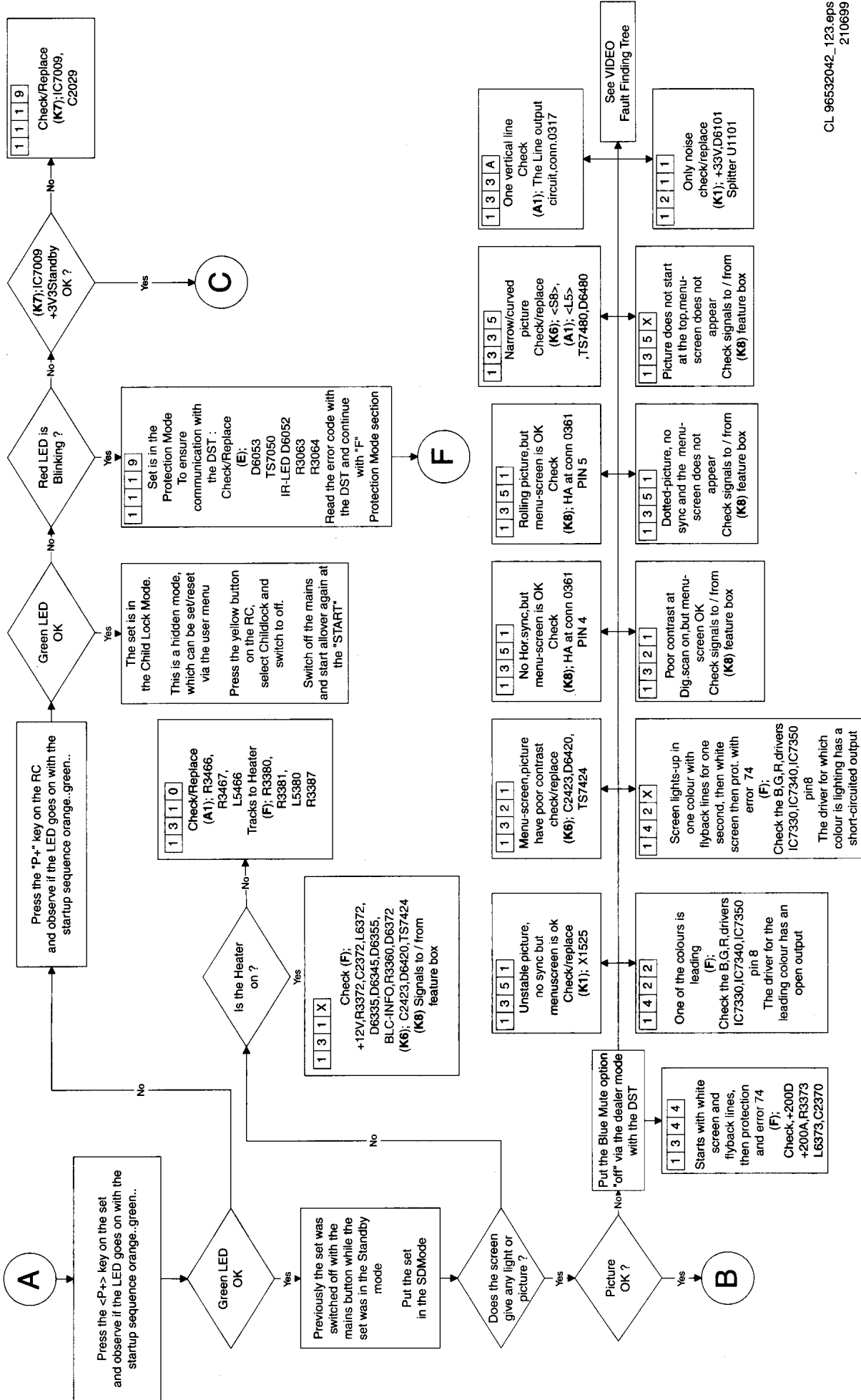


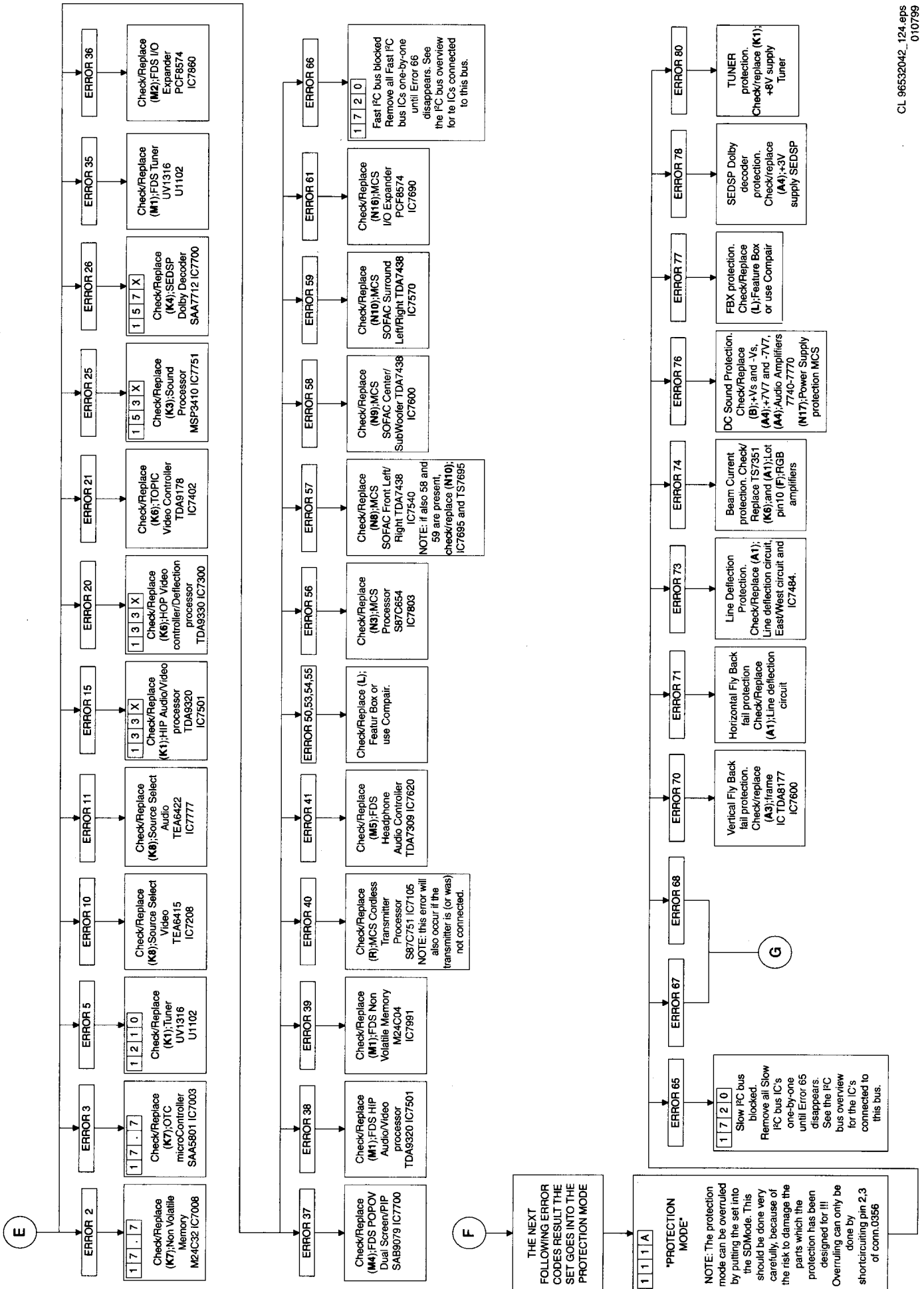
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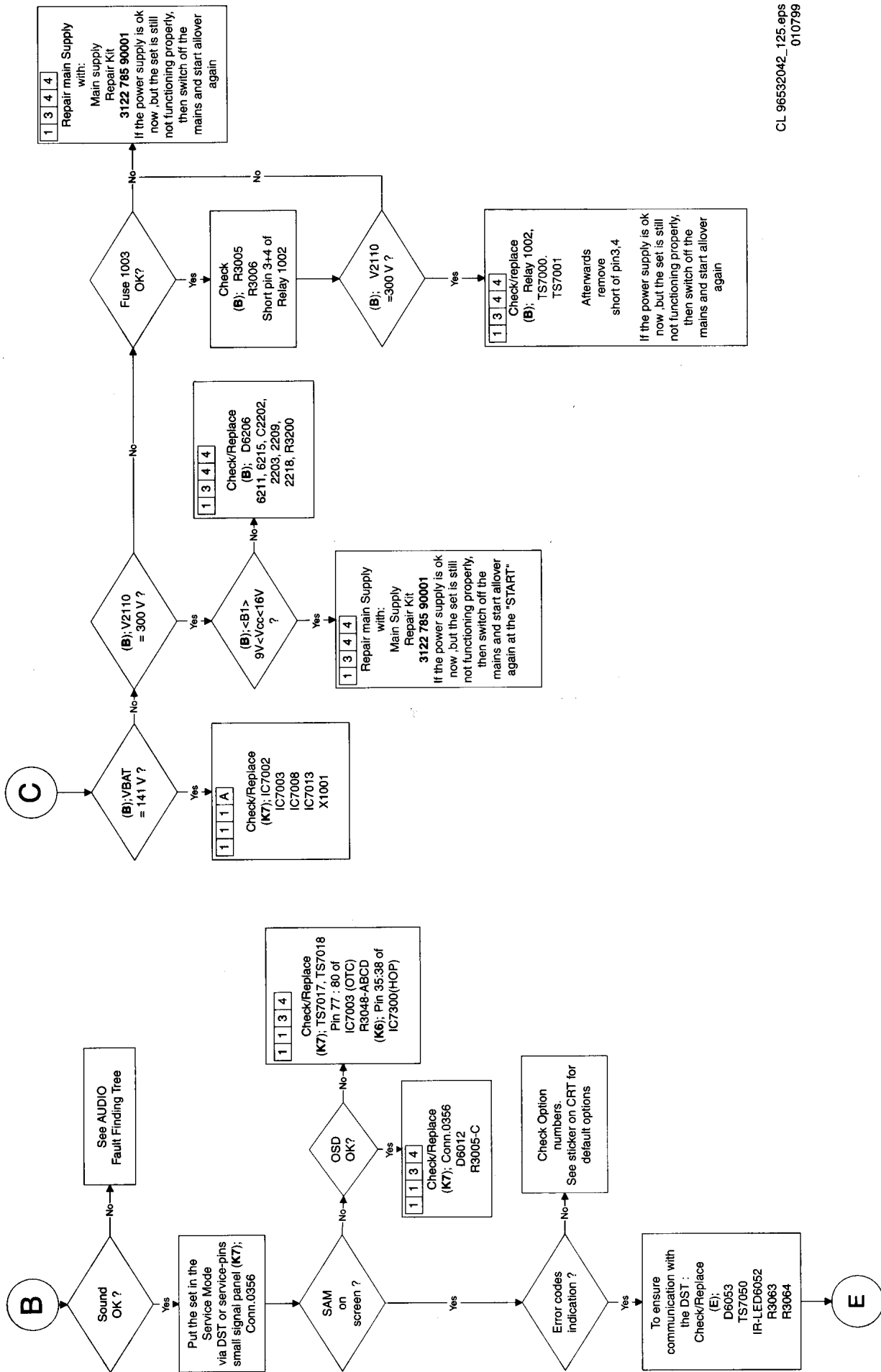
Figure 5-26

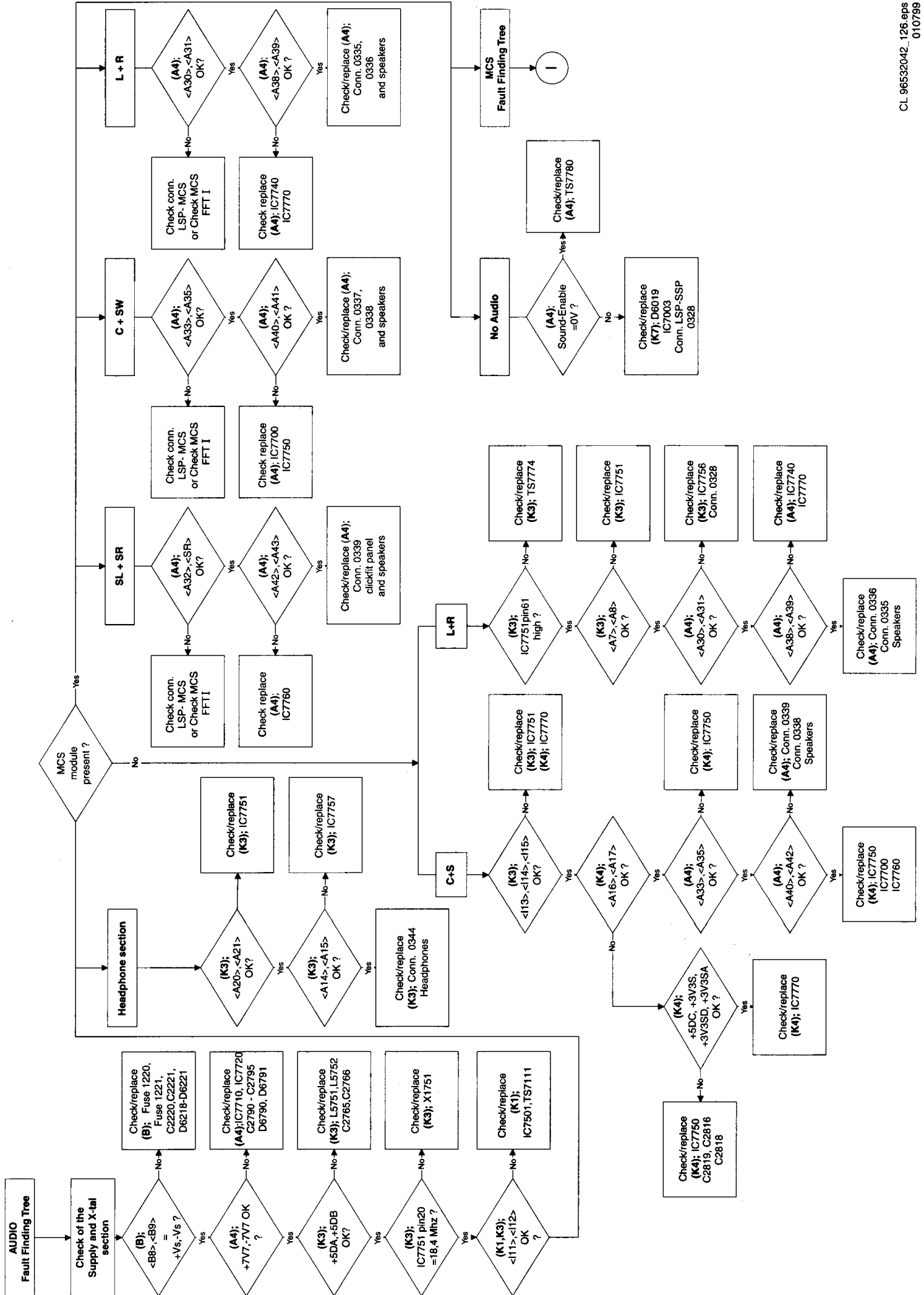
5.5 Fault find trees

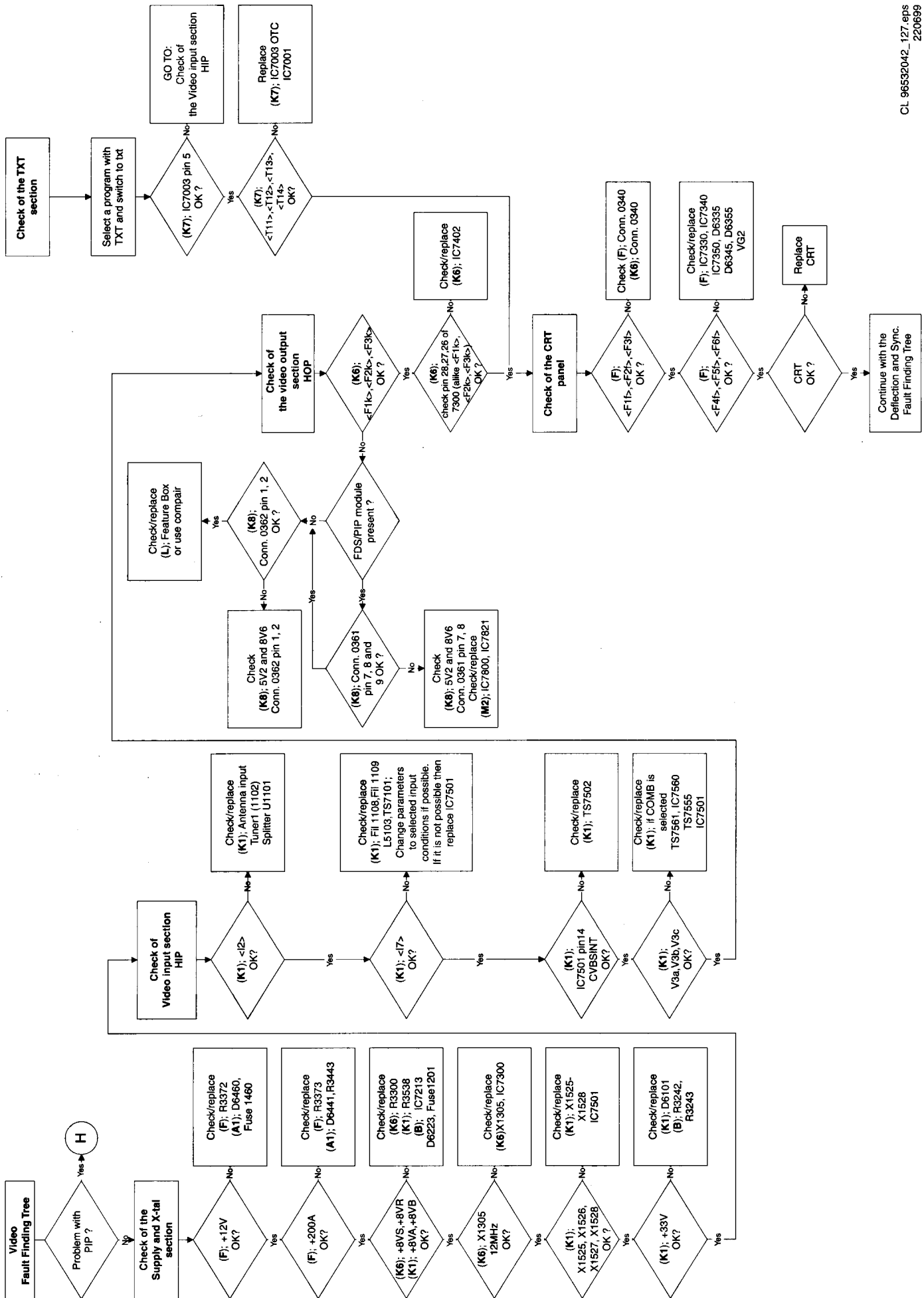


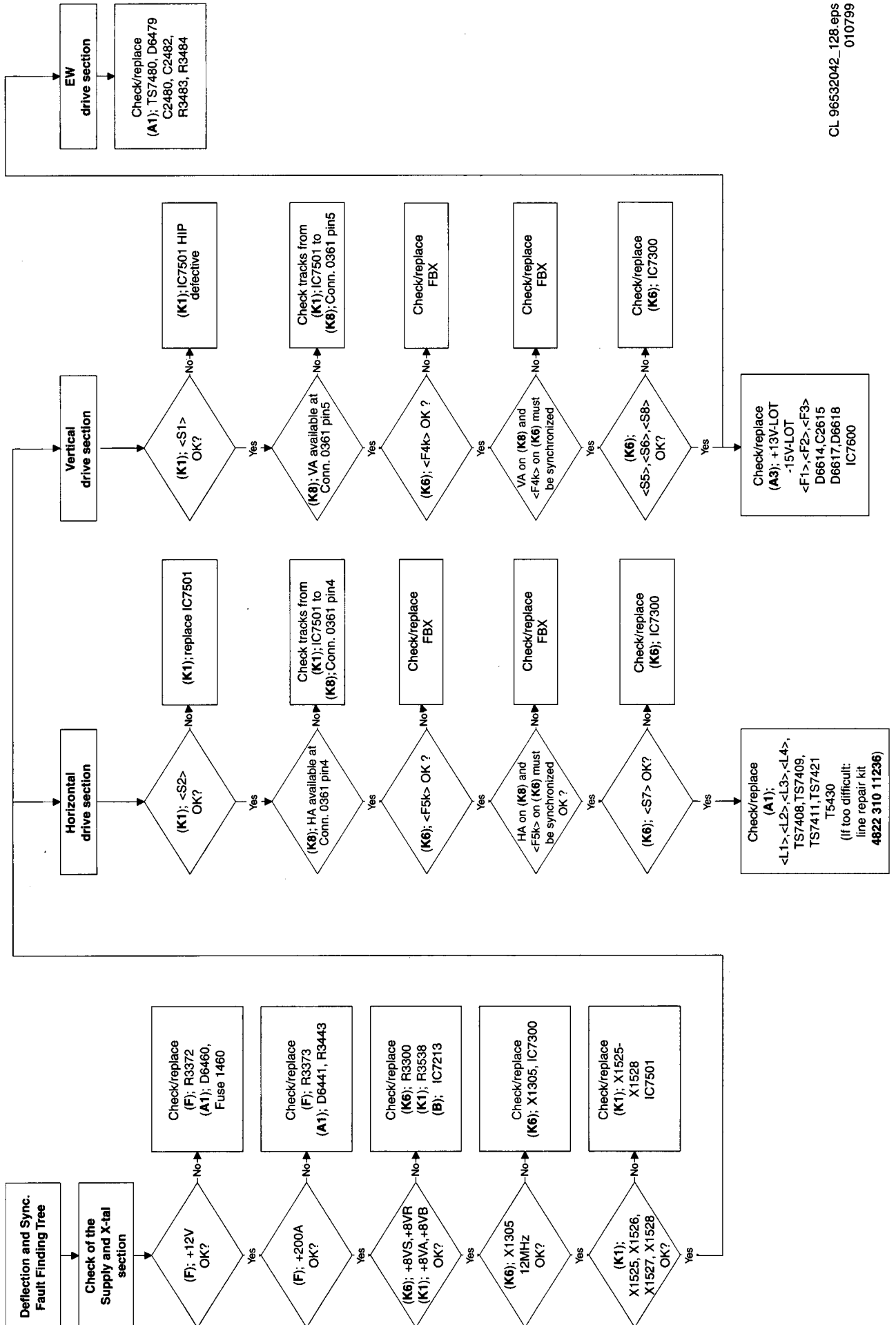


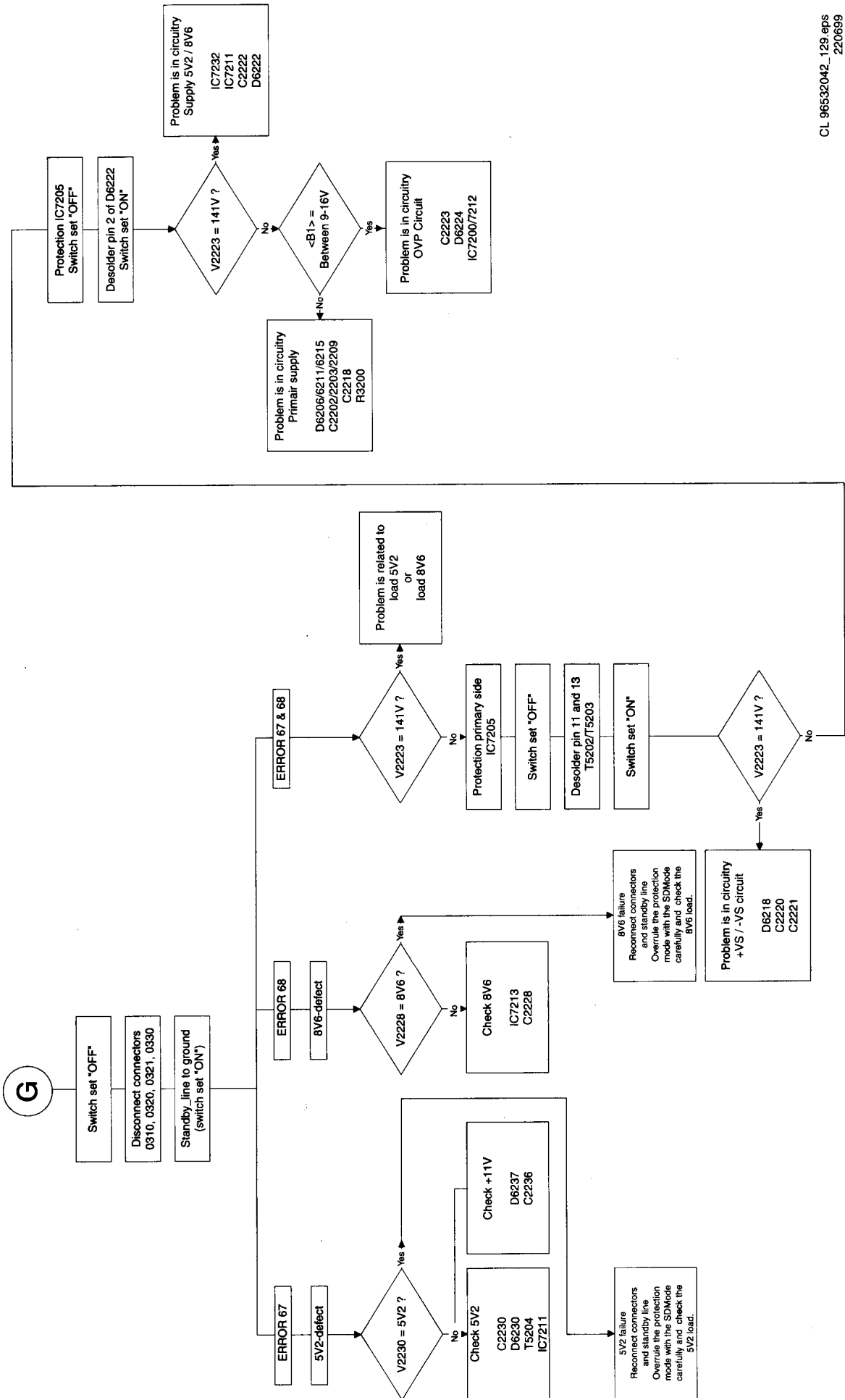


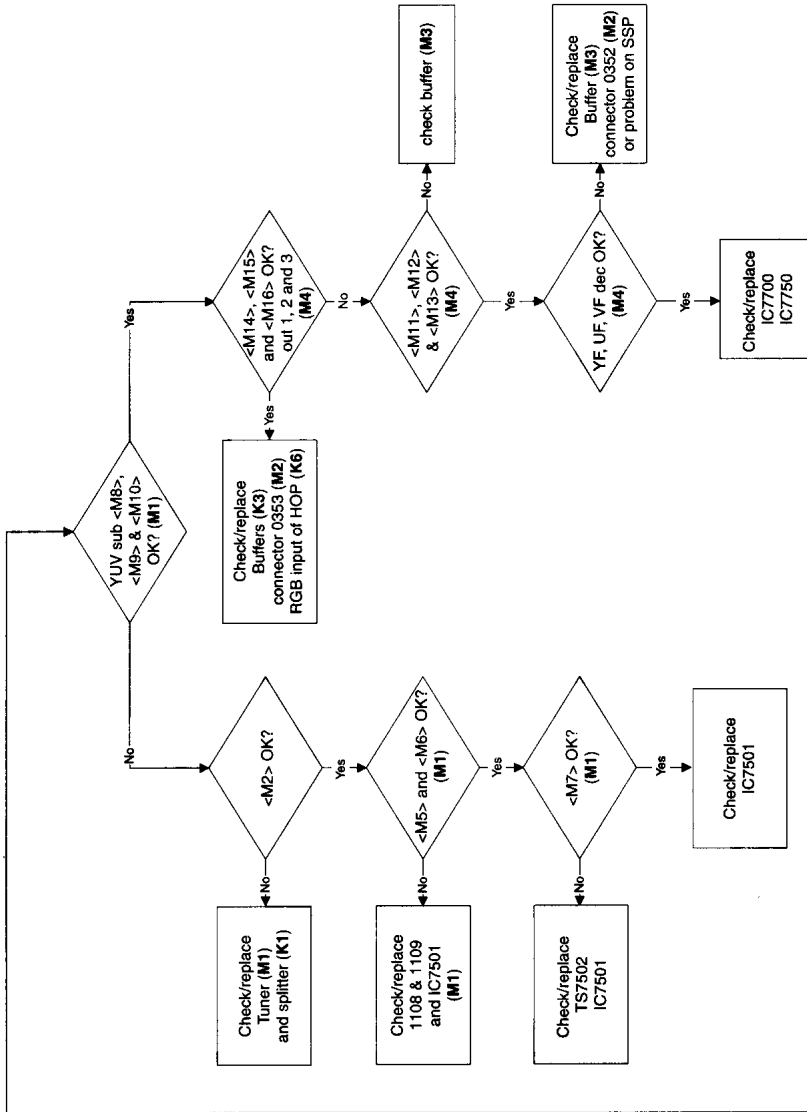
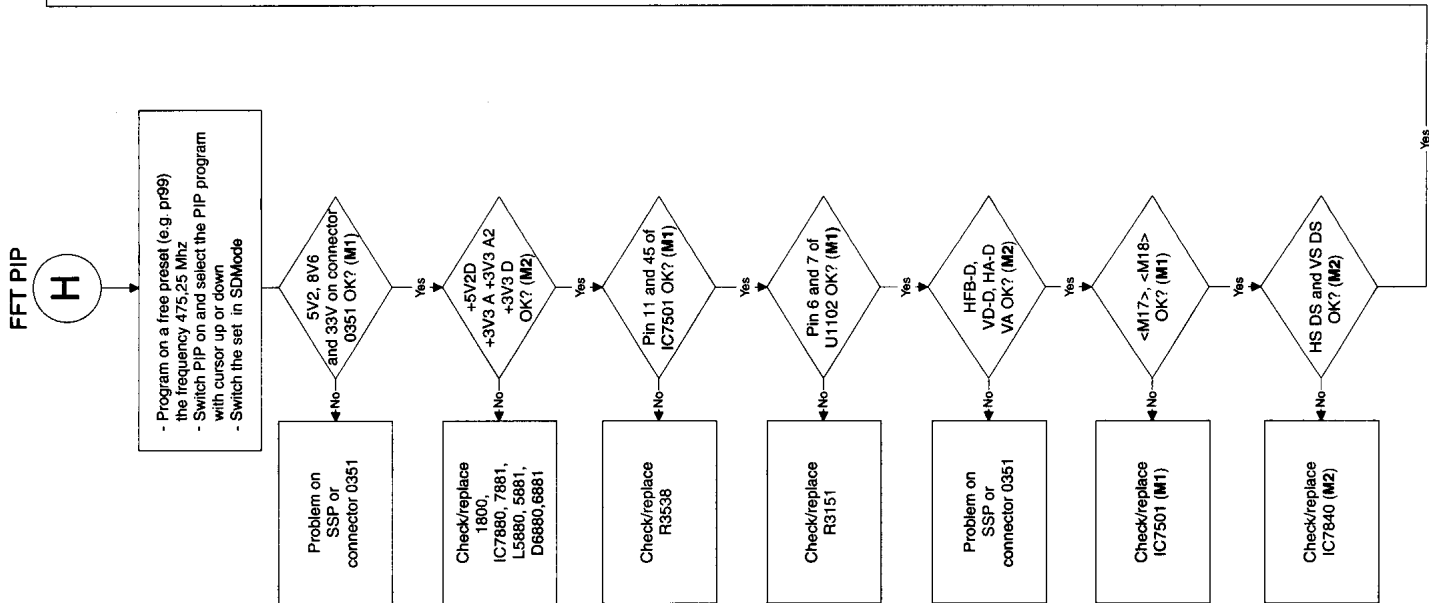












NOTE:

- PIP-mode: 100 Hz RGB insertion in HOP (K6)
- mosaic-mode: 50 Hz YUV insertion in main YUV in IC7800 (M2)
- no PIP-mode: IC7800 in transparent mode for main YUV (M2)

FFT MCS



NOTE: There are many options and settings for the MCS module. It is advisable to check these options/settings before repairing.
SEE: Main menu -> sound -> surround settings
 Installation -> setup -> sound setup
 SAMode alignments options -> audio repro
 Sur speaker -> channel selector on bottom

Select an external and set volume to 50%
 From the main menu select: sound -> surround settings
 Set centre volume. Rear volume left and Rear volume right to max. Set balance to centre. Select test start and OK.
Note: If the surround speakers are not selected, set wireless headphone on the sound menu to off.

Is noise audible via all speakers?
 (only one at a time)

Yes
 No

Connect a patterngenerator to tuner at 475.25 MHz select L=1 KHz R=3 KHz Go to SDMode

Audio via L-R Speakers?

Yes
 No

Measure <N1> and <N2> (N6) OK?

Yes
 No

Measure on PIN 3 and 5 of (N5); IC 7806 OK?

Yes
 No

Check/replace (N5); IC7806 (N1); IC7801 R3876 3877

Check/replace (N6) IC7505 TS7510 TS7512

Problem on SSP

Exit the SDMode by pressing Standby. Connect a digital source (eg from CD OR DVD) to digital in on the MCS. Connect a CVBS signal to EXT1. From the installation menu select SETUP and set digital sources to "EXT1+dig audio". Select EXT1 and play a stereo CD. From the audio menu select surround settings and set surround mode to "dolby pro logic".

MCS OK

Audio via all speakers?

Yes
 No

Check/replace (N2); IC7802 (N1); IC7801 (N12); Dig in Connector

Check/replace (N12); Connector dig in

<N5> OK? (N2)
 <N53> OK? (N2)

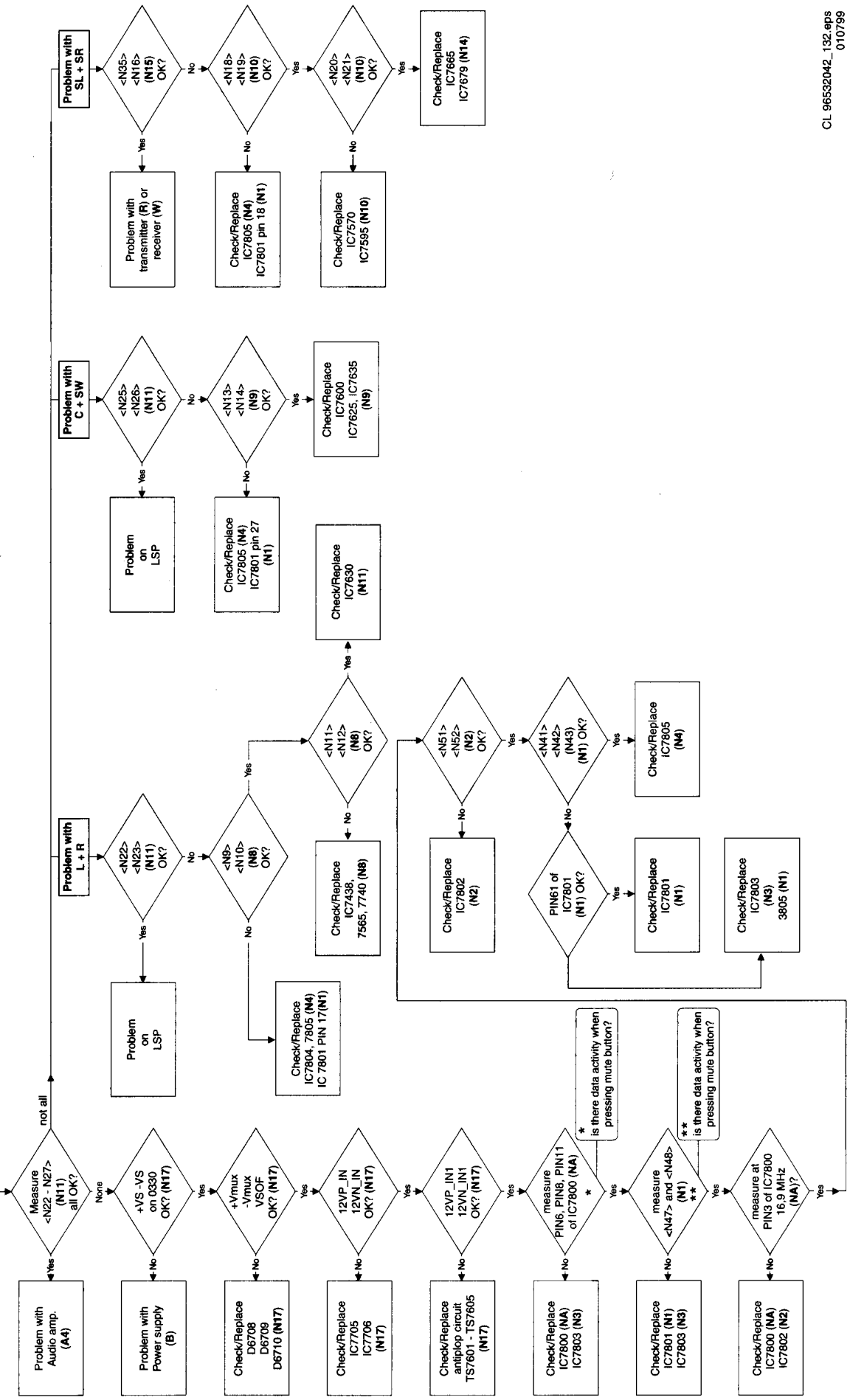
Yes
 No
 Yes

Check/replace (N2); IC7802 (N1); IC7801

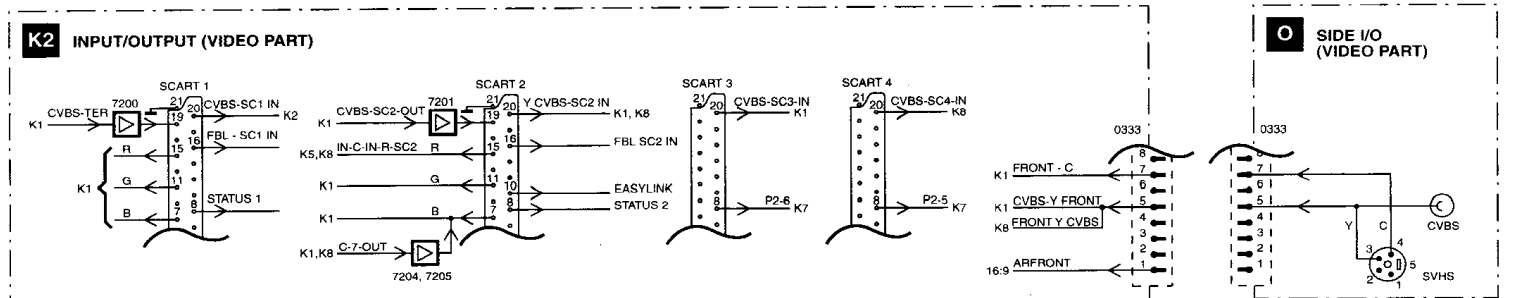
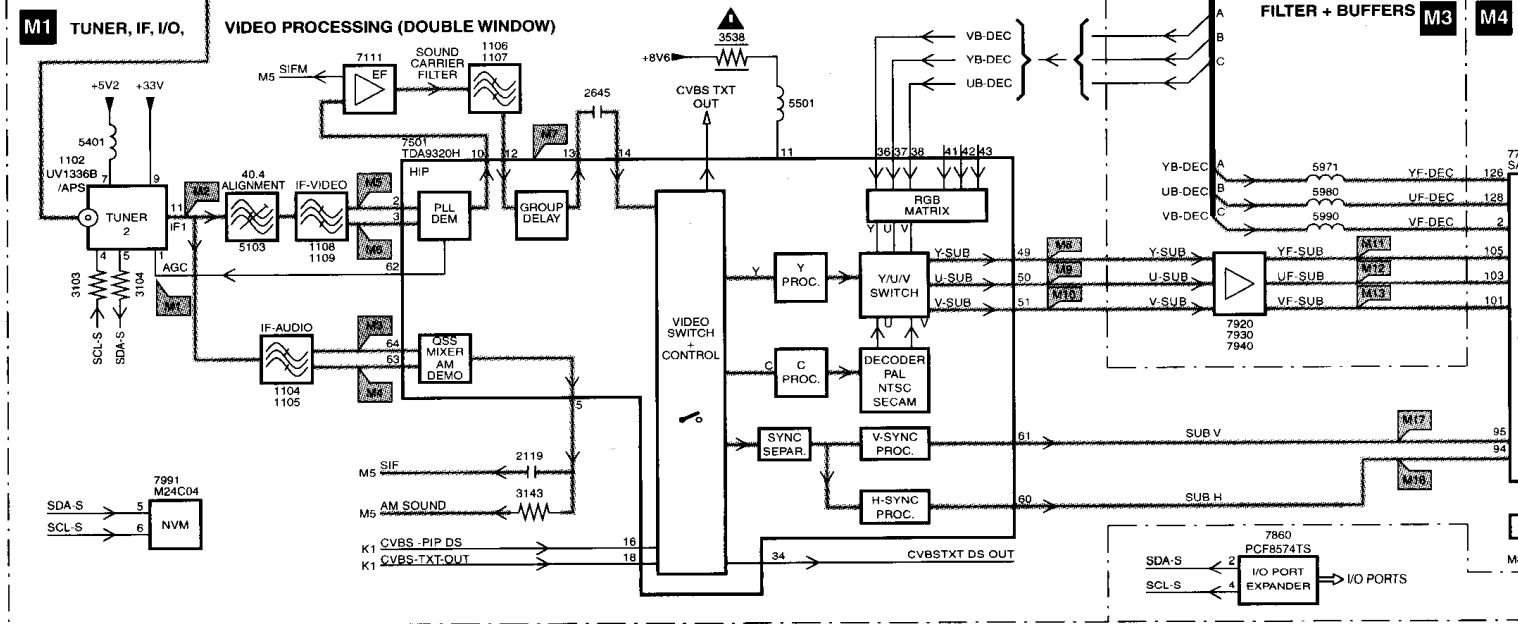
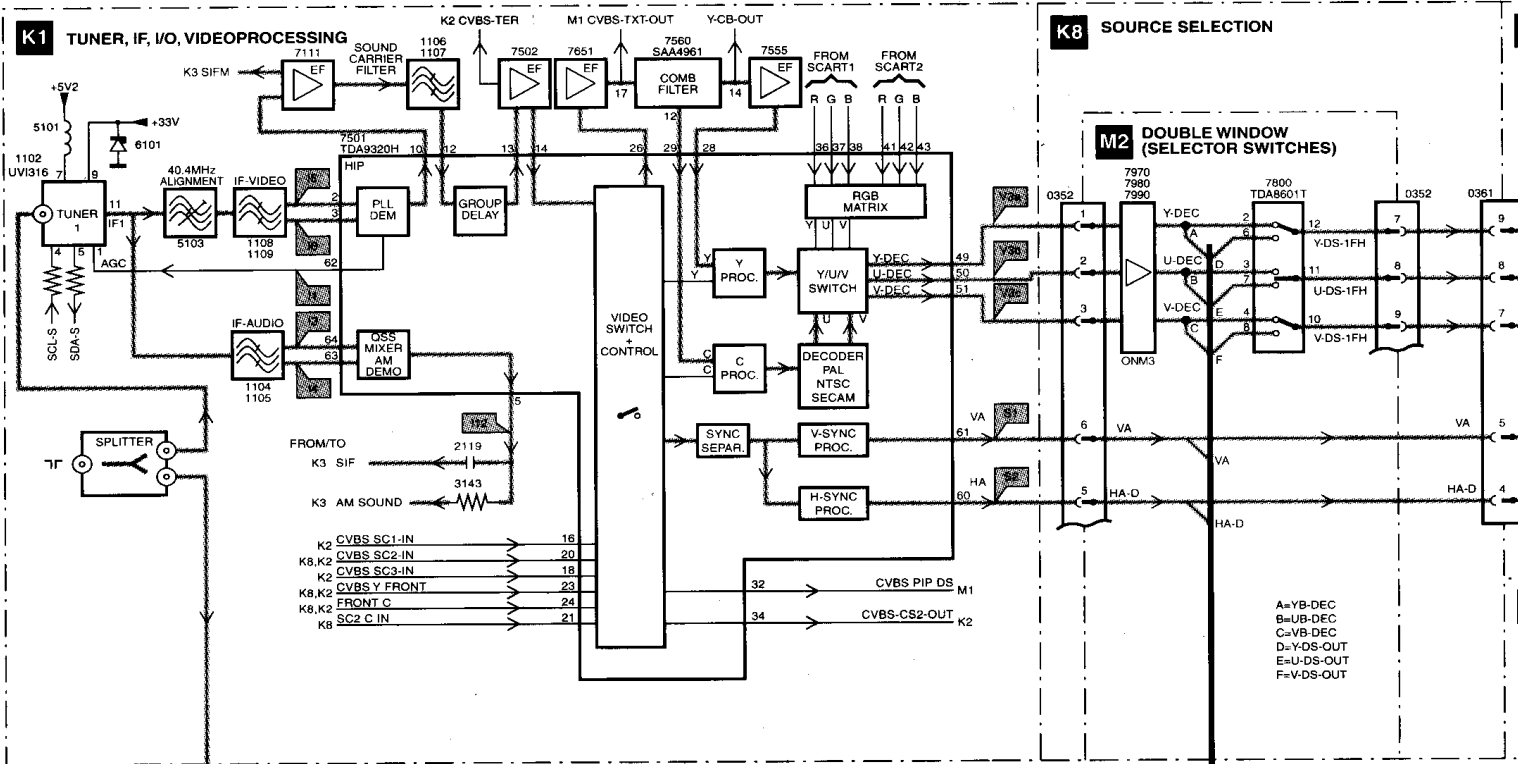


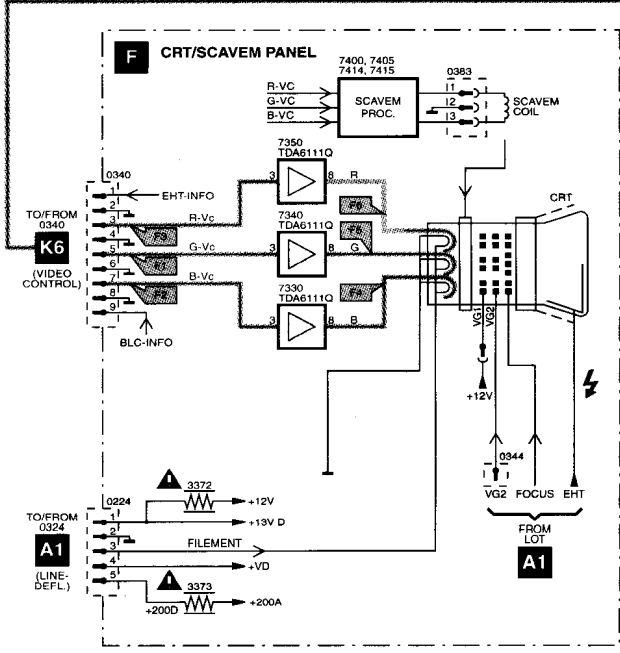
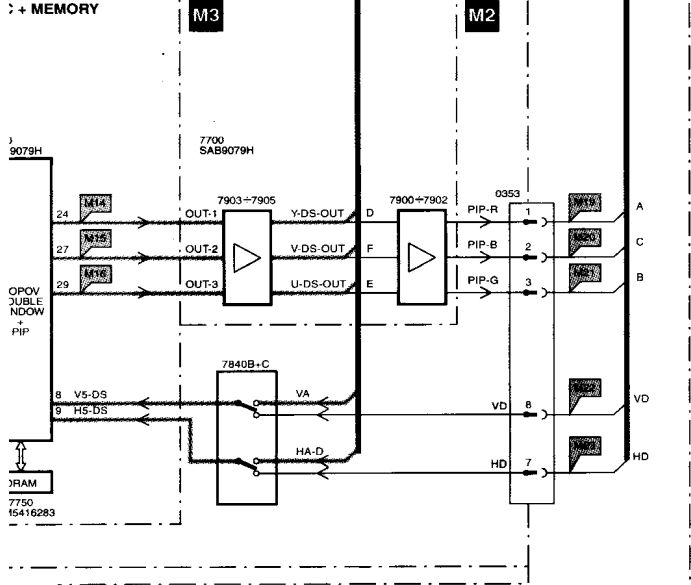
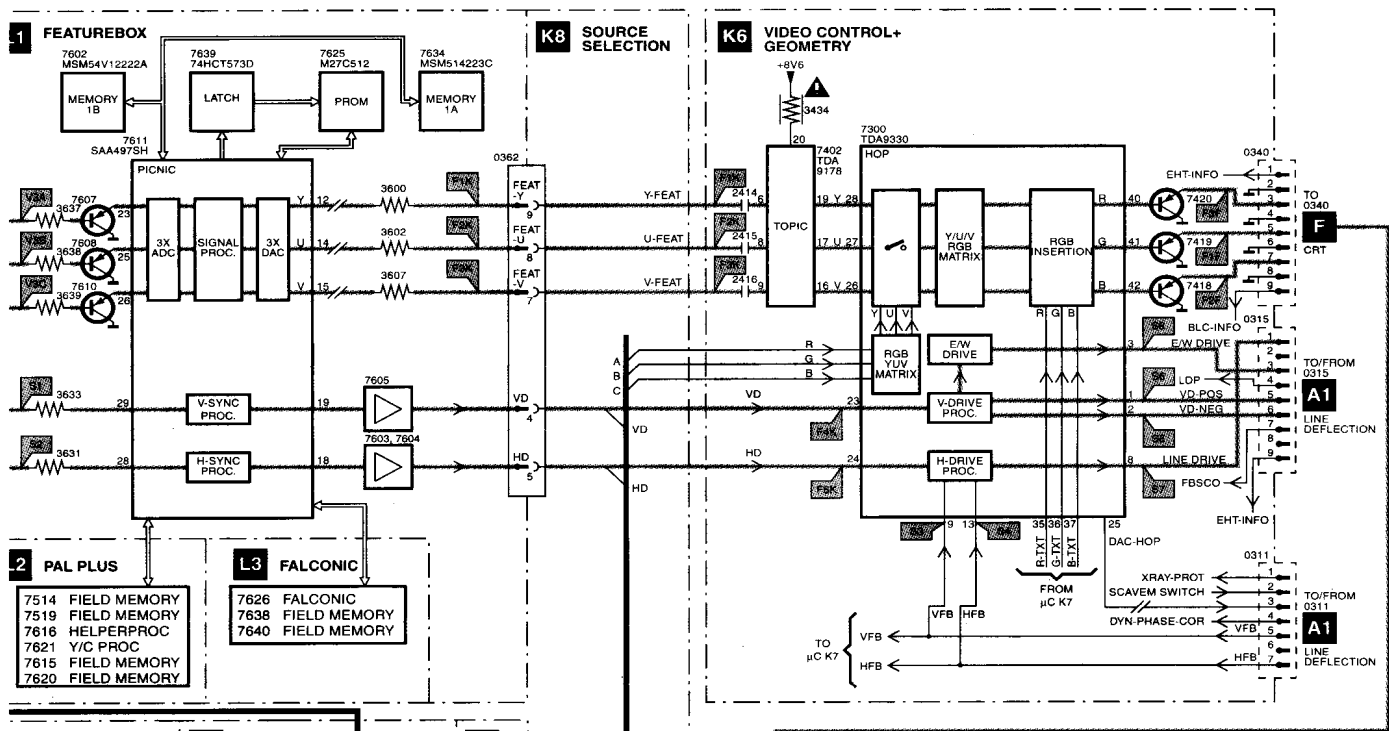
J

Connect a pattern generator 475.25 MHz.
Set L to 1 KHz and R to 3 KHz.
Select a colour bar. Switch SDMode ON.
From the soundmenu select surround settings.
Set center volume, rear volume left and rear volume right to max. set balance to centre. Select surround mode to dolby prologic.



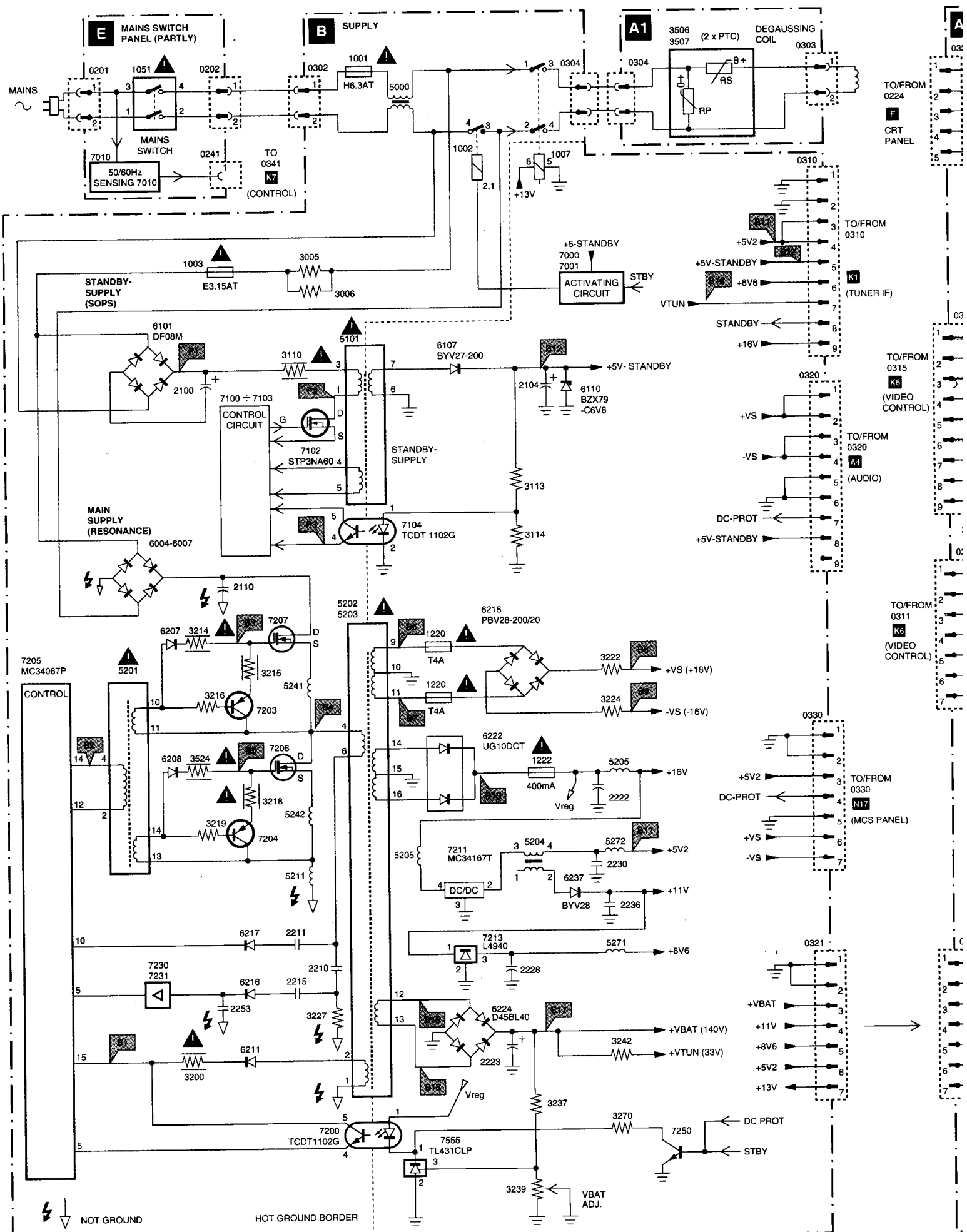
Videosignal flows

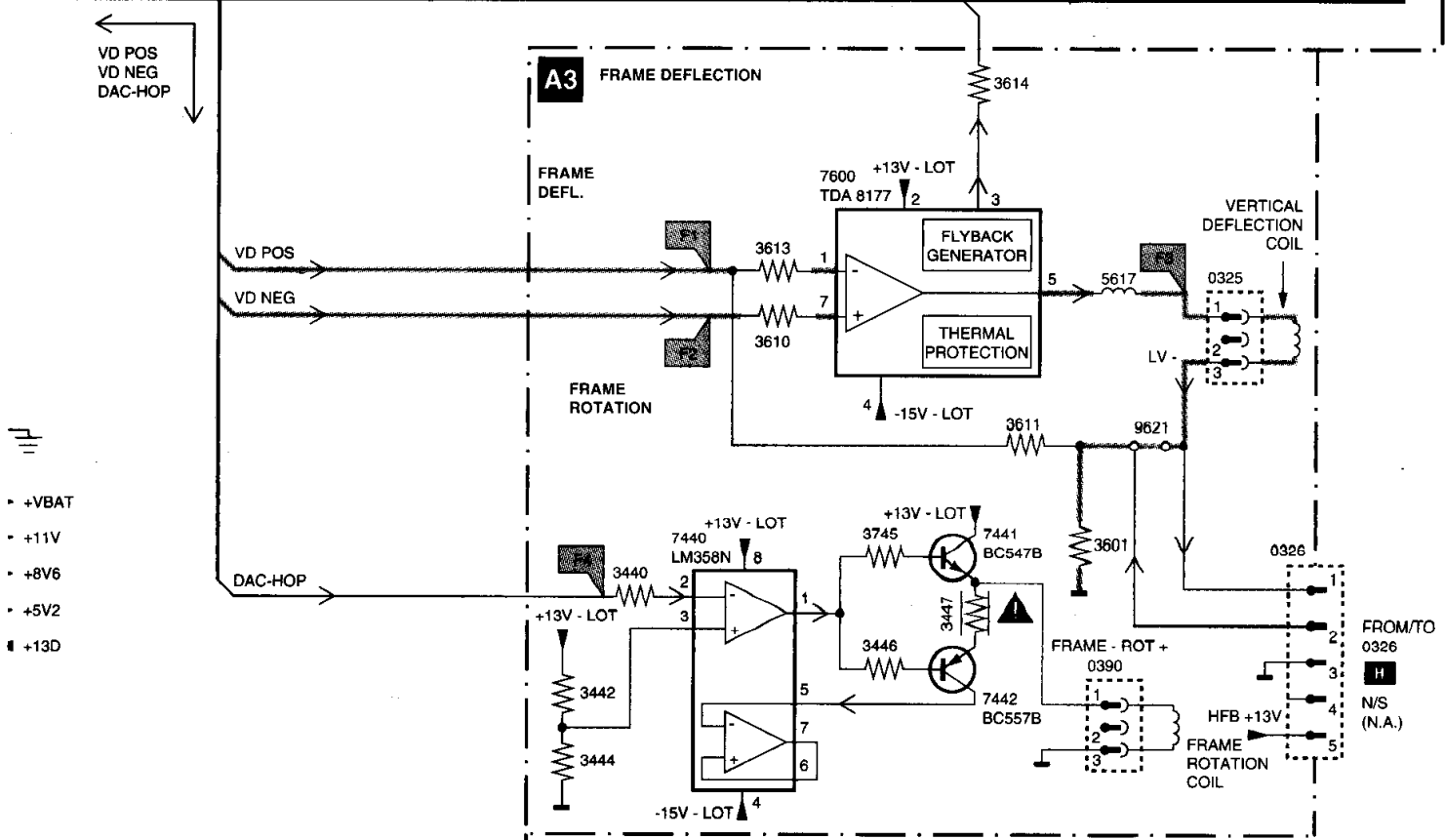
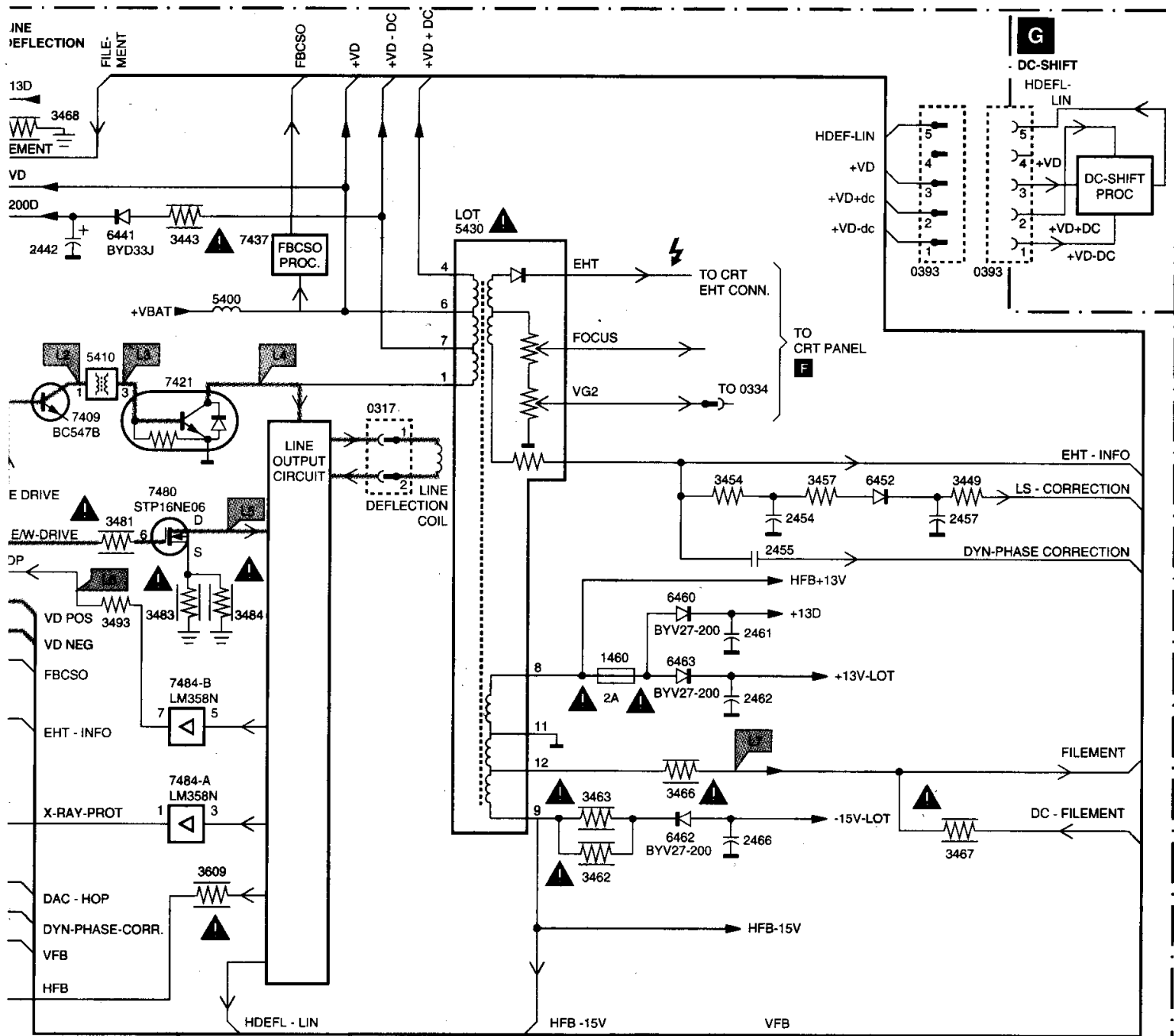




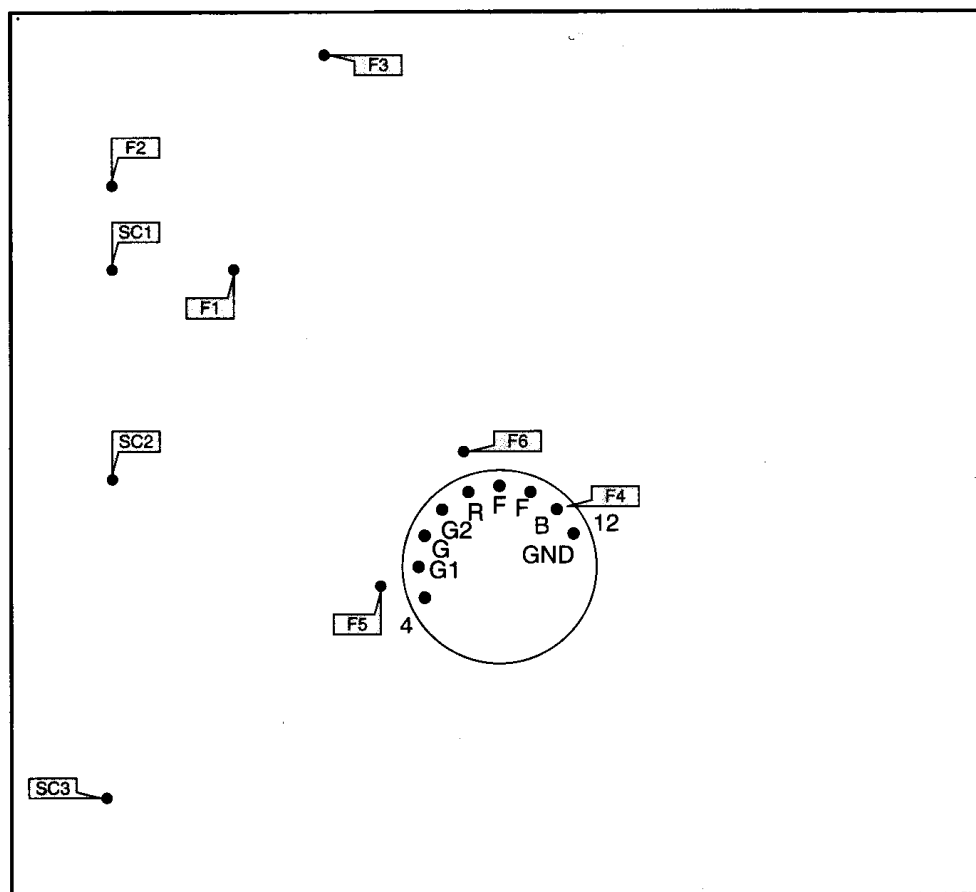
6. Block diagrams, Testpoint overviews and Waveforms

Blockdiagram Supply and Deflection





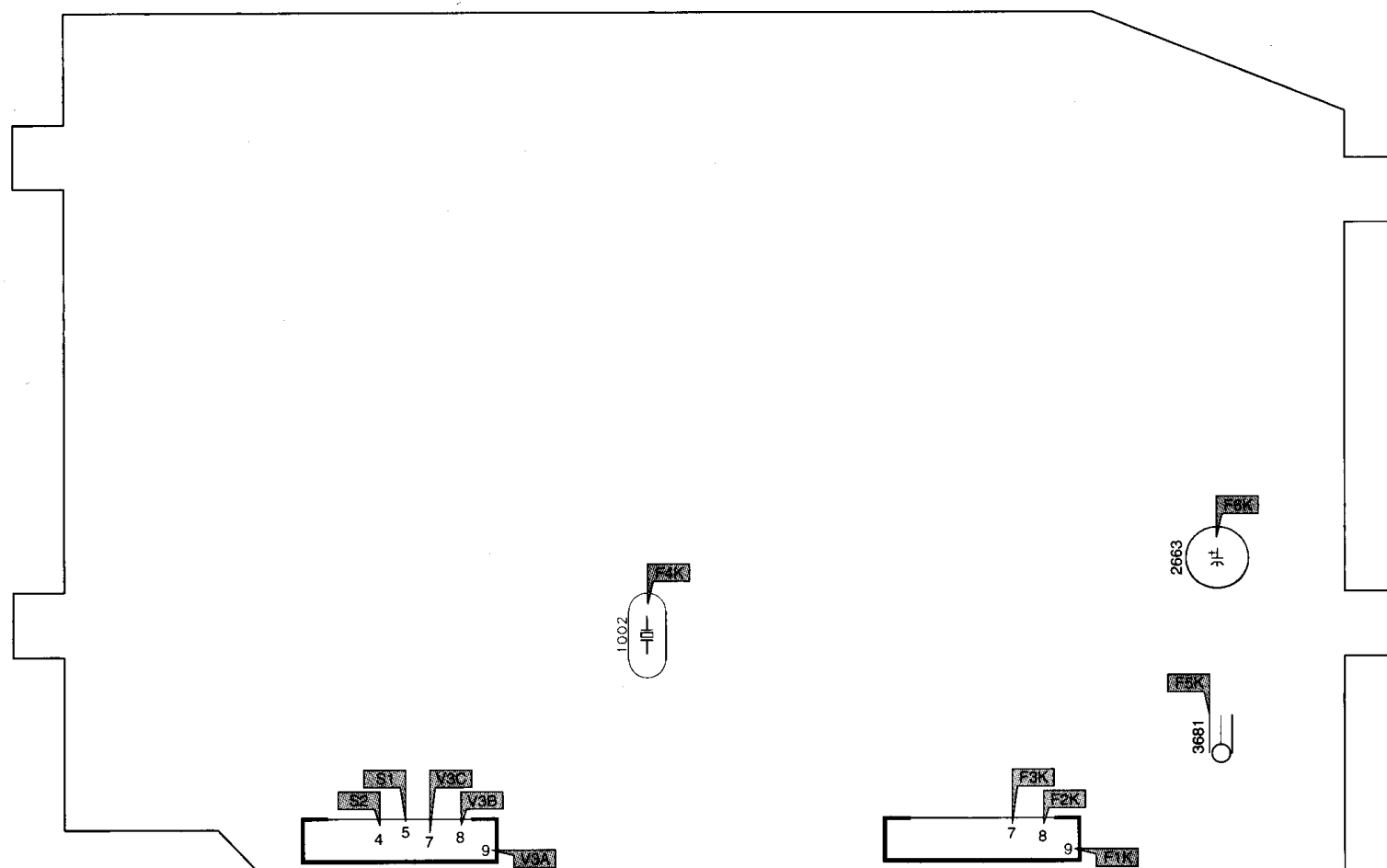
CRT / SCAVEM panel (F)



(COPPER-SIDE)

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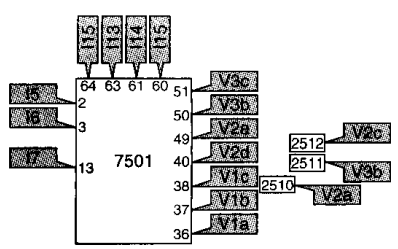
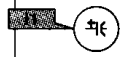
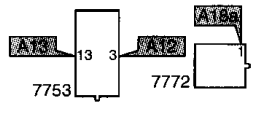
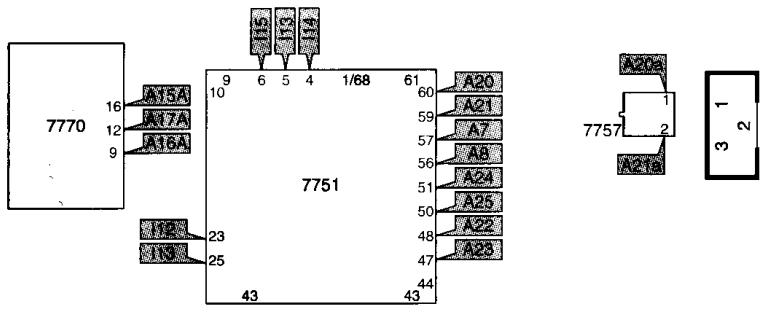
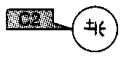
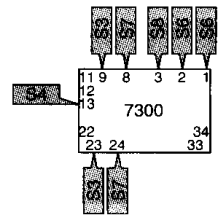
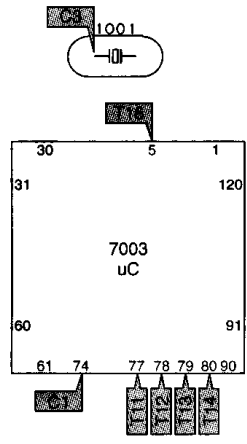
FBX panel (L)



(COPPER-SIDE)

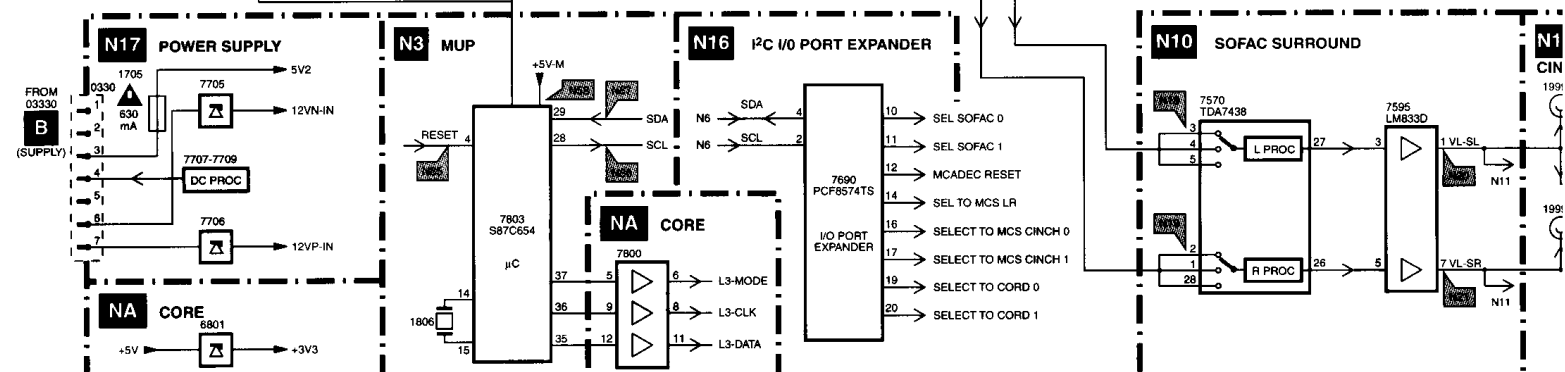
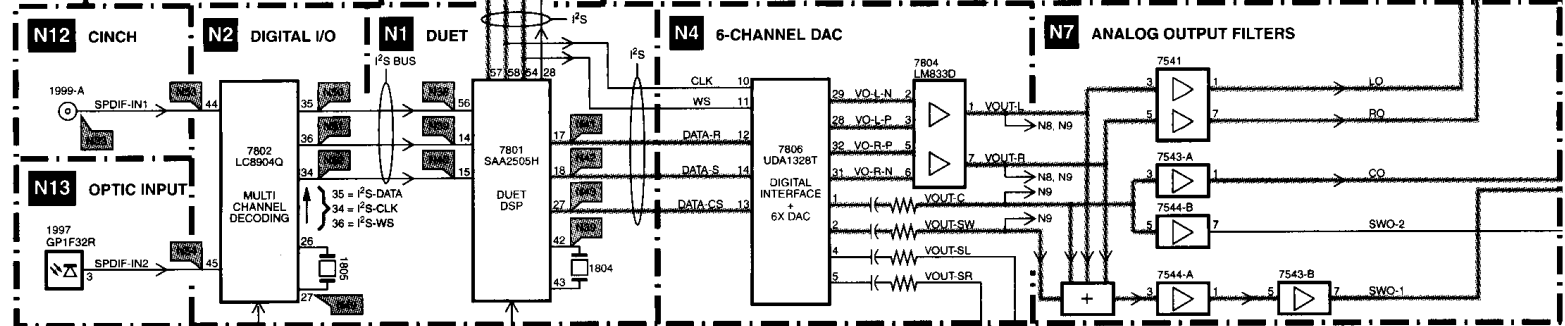
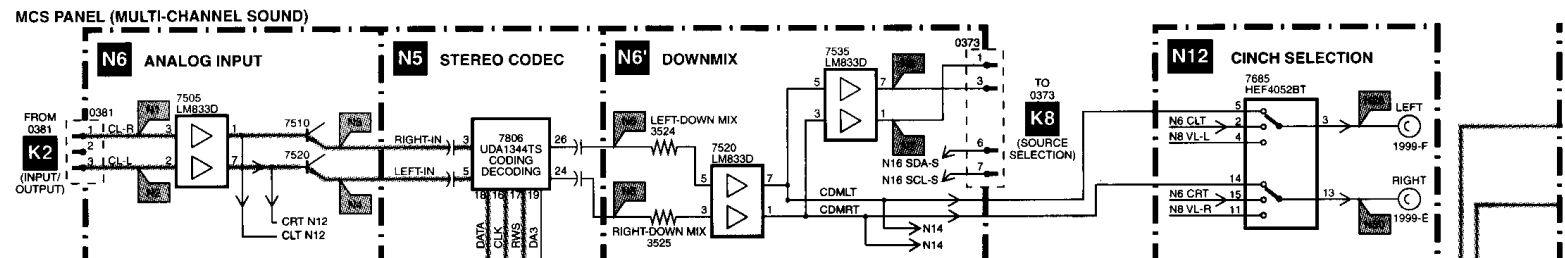
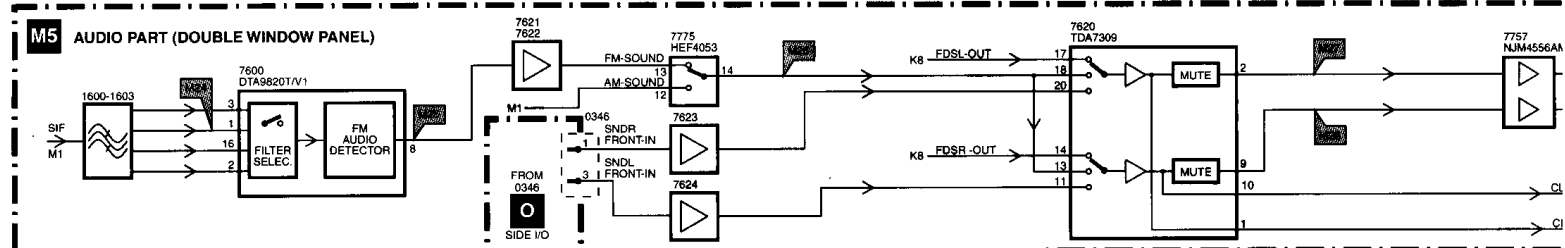
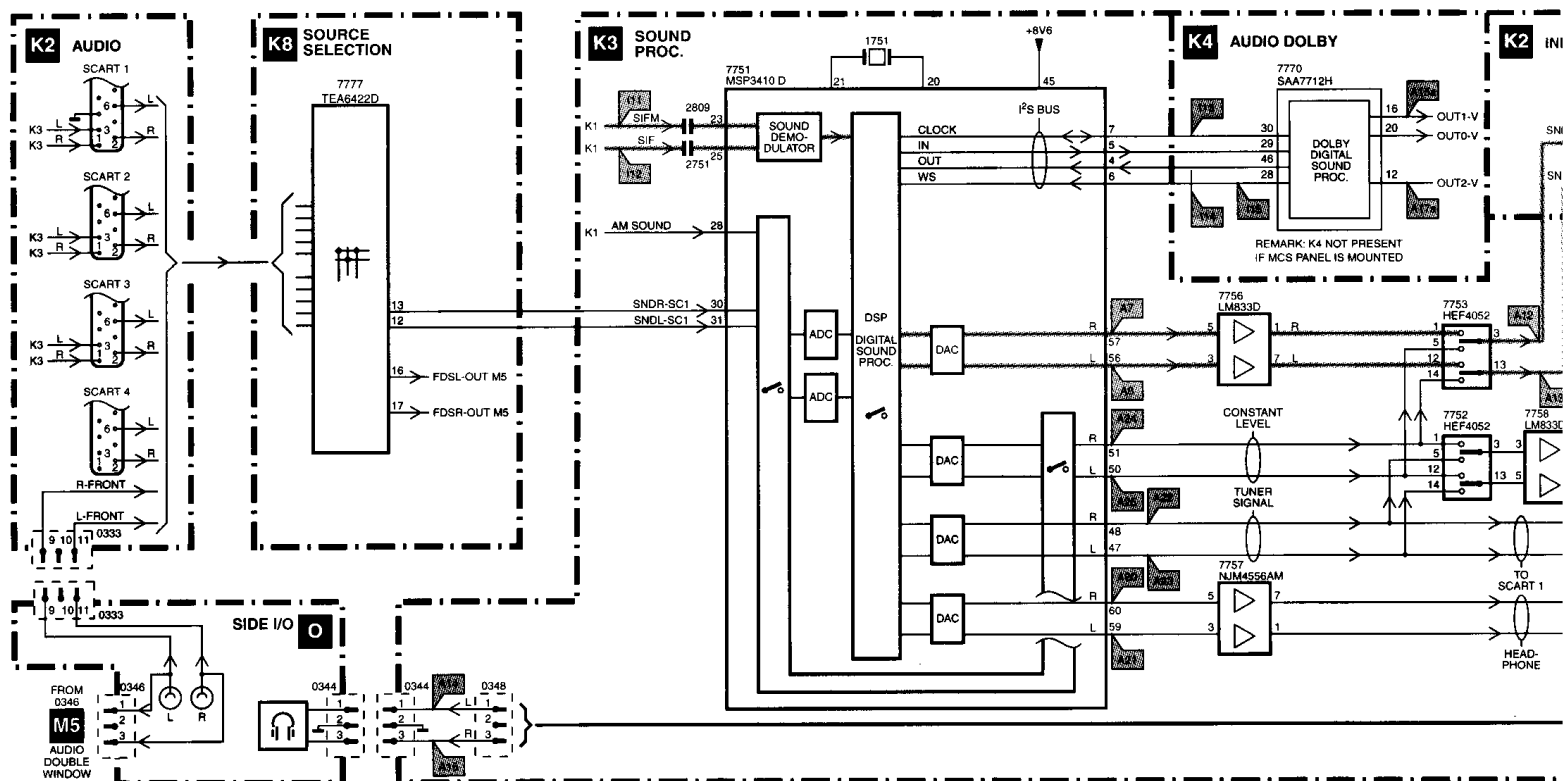
CL 96532042_061.eps
210699

Small signal panel (K)

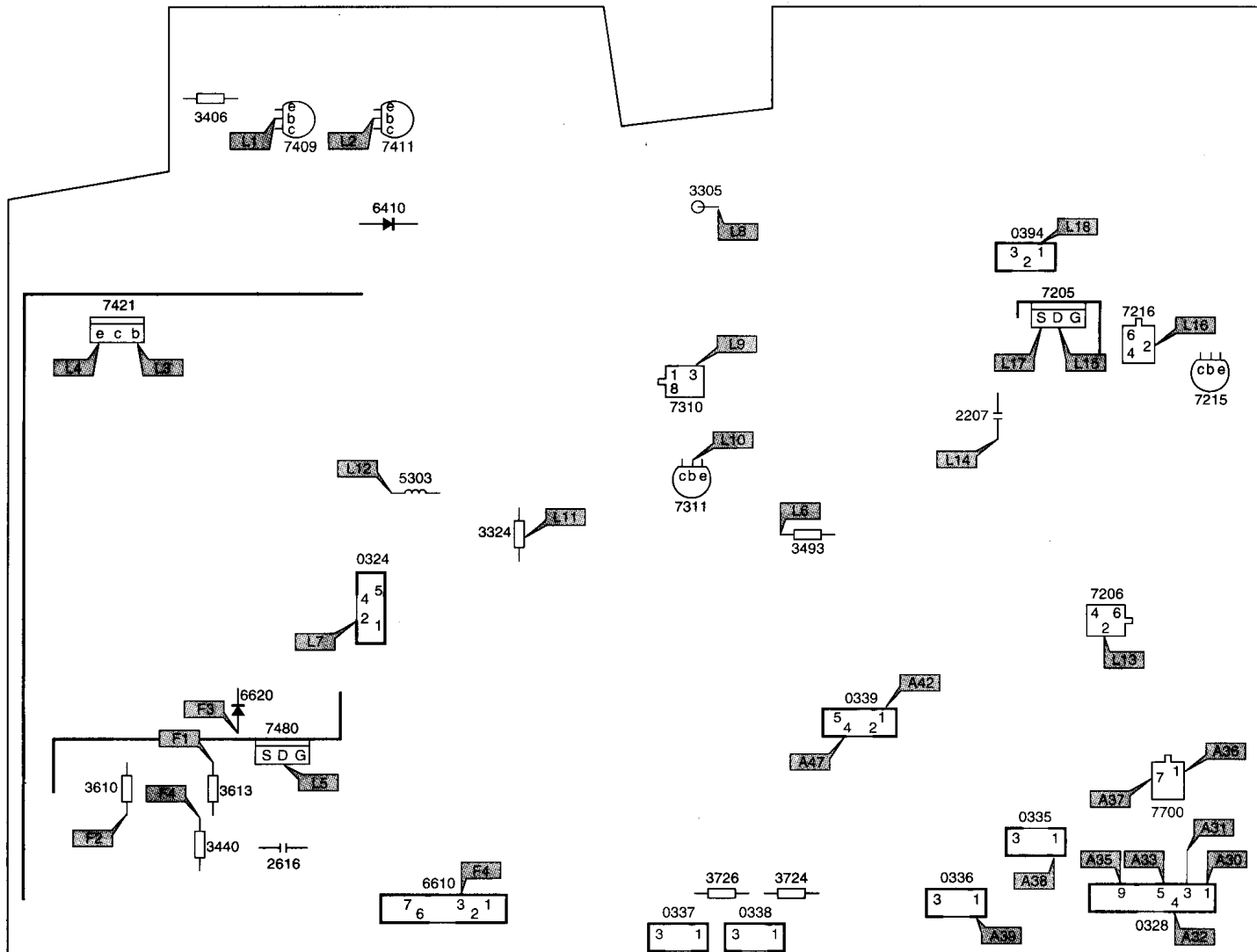


(COMPONENT-SIDE)

Audiosignal flows

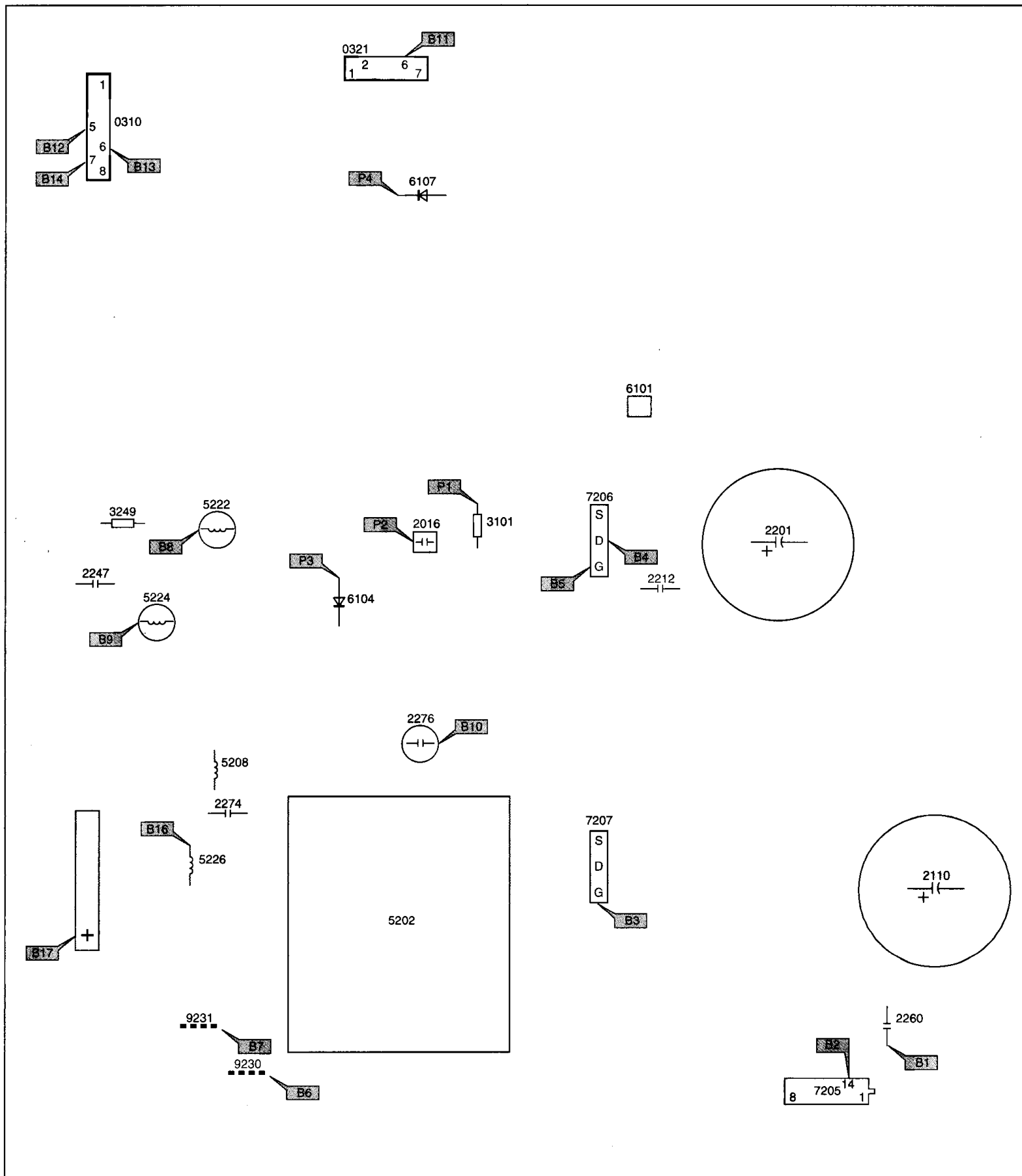


Large signal panel (A)

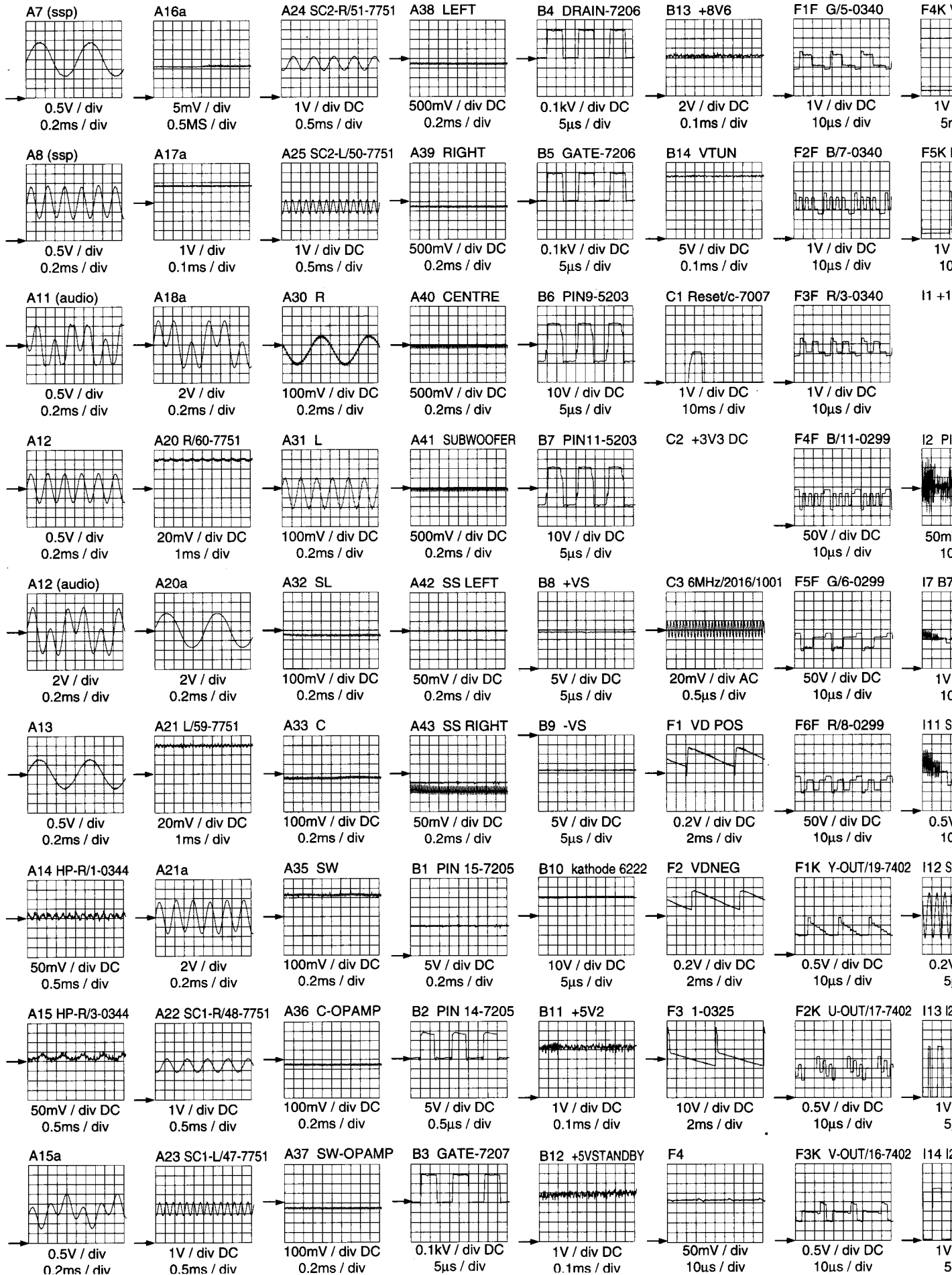


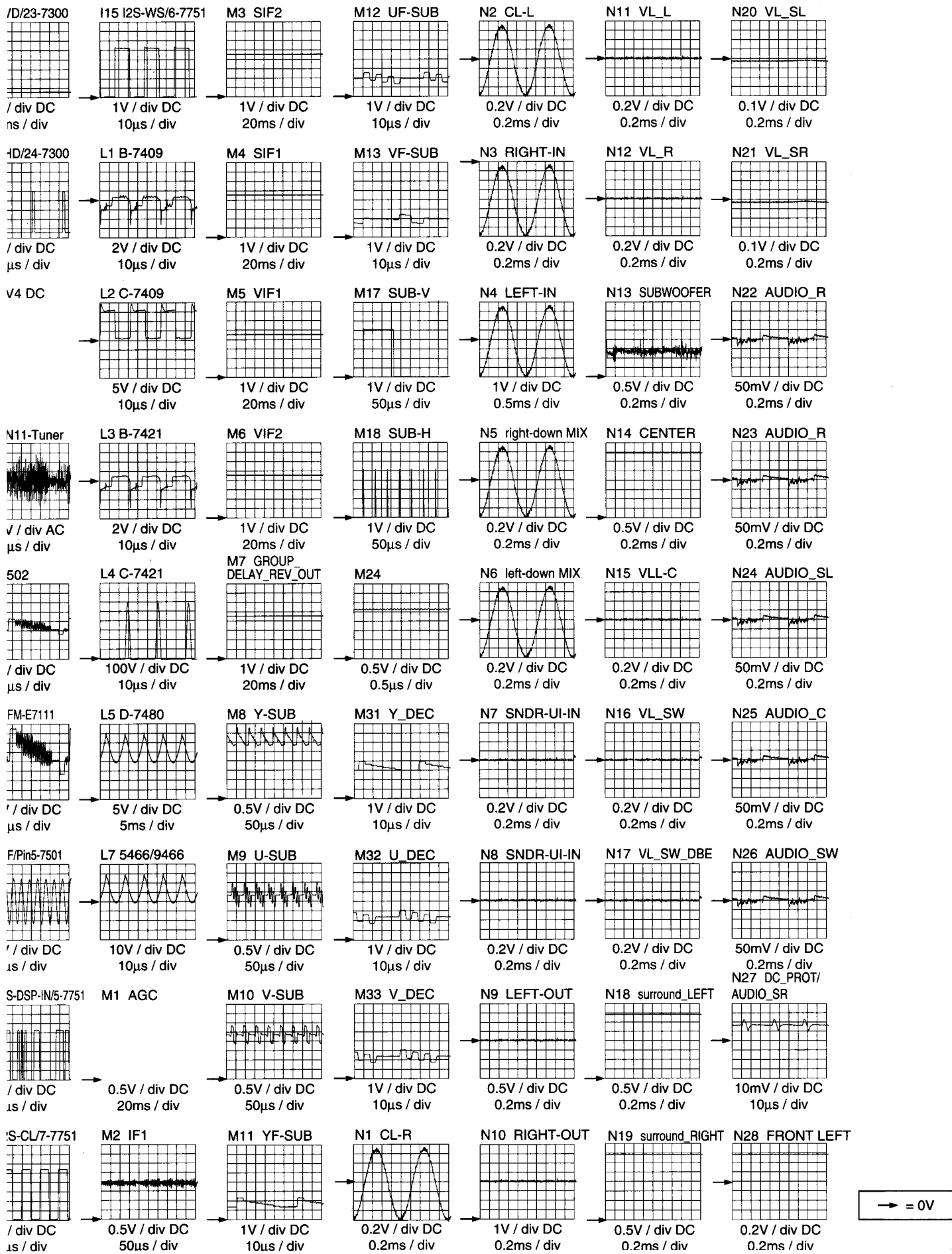
COPPERSIDE

Top supply (B)



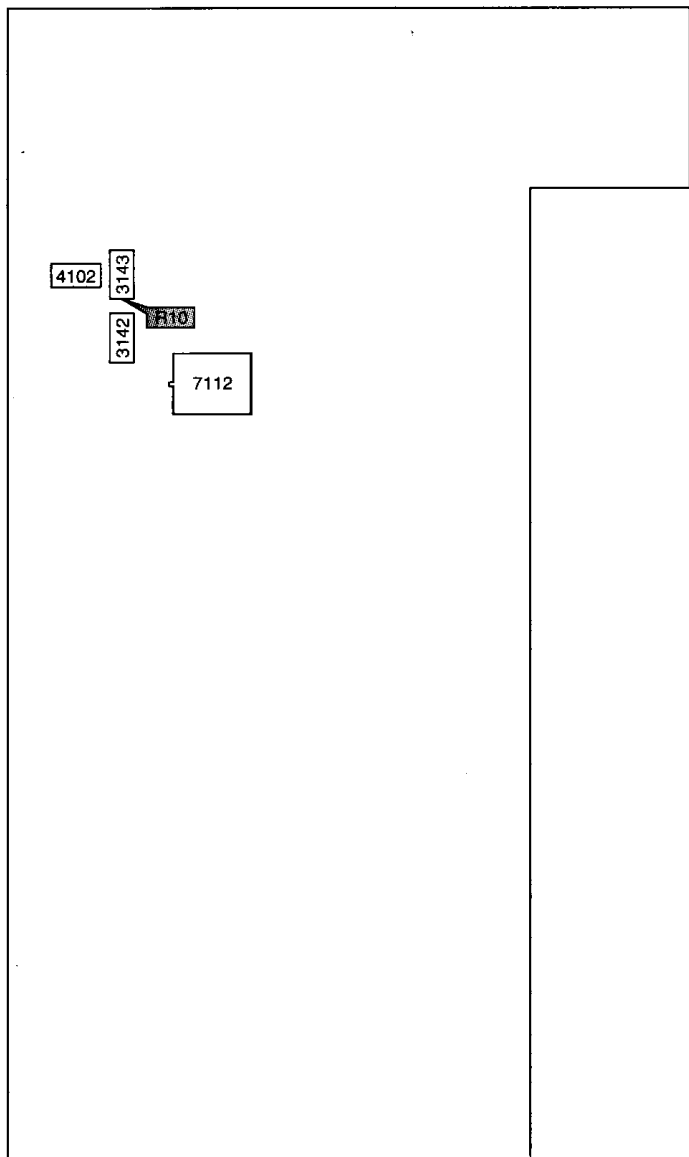
Waveforms





→ = 0V

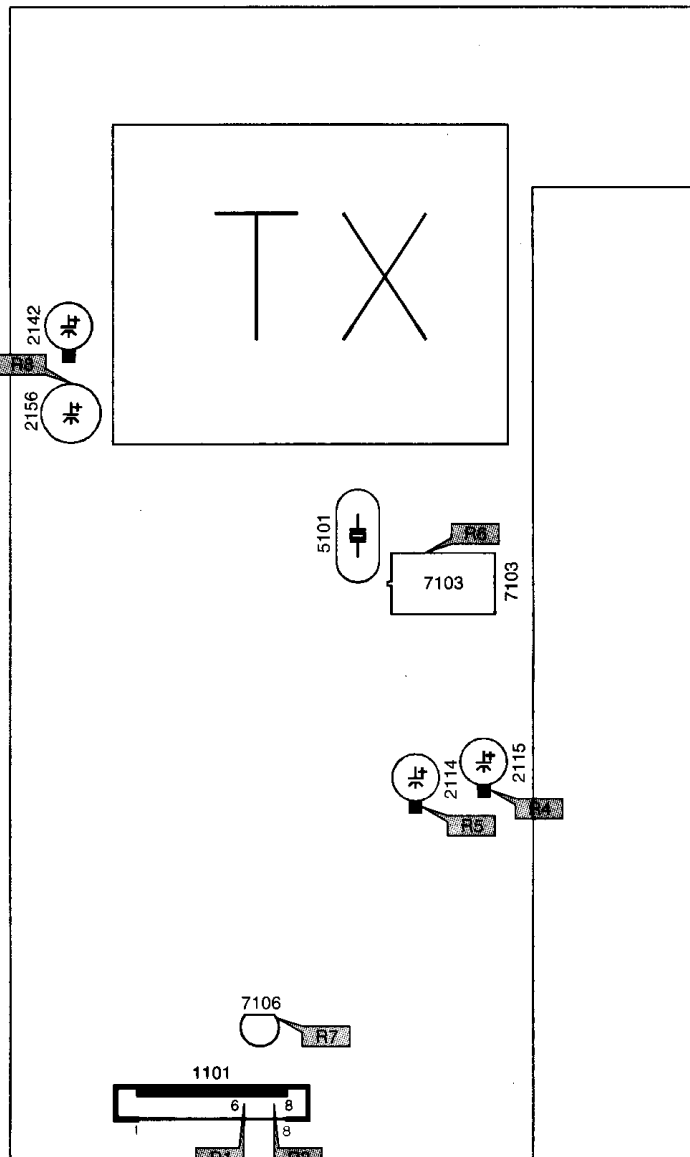
Surround transmitter (R)



(COPPER-SIDE)

CL 96532042_056.eps
210699

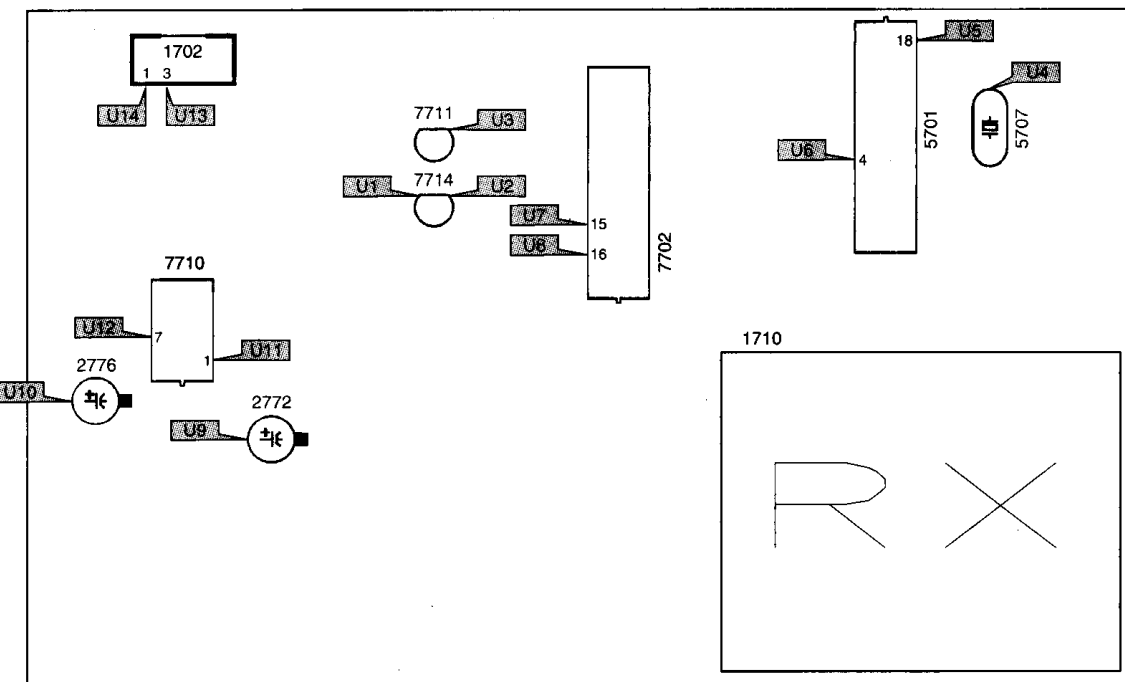
Surround transmitter (R)



(COMPONENT-SIDE)

CL 96532042_057.eps
210699

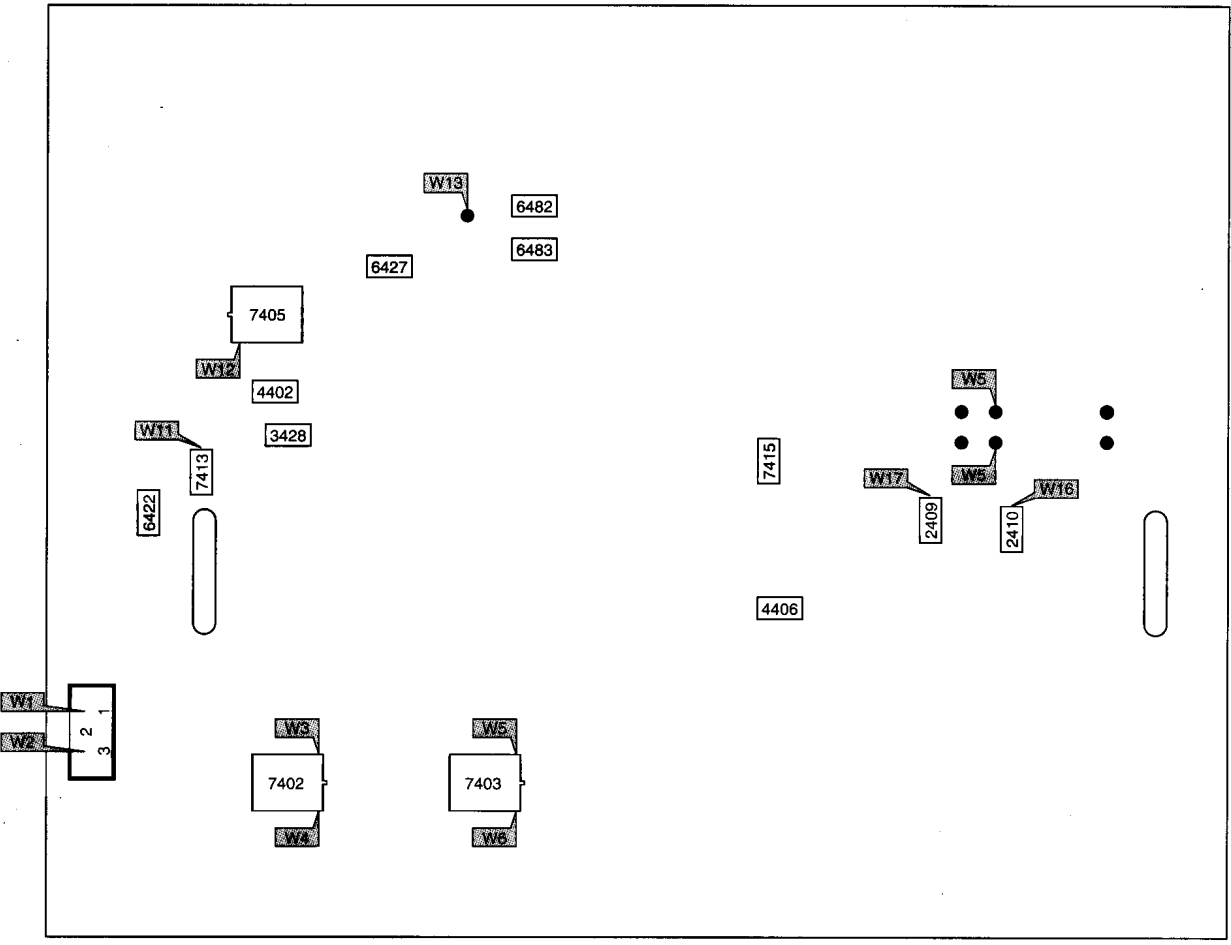
Surround receiver (U)



(COMPONENT-SIDE)

CL 96532042_058.ai
210699

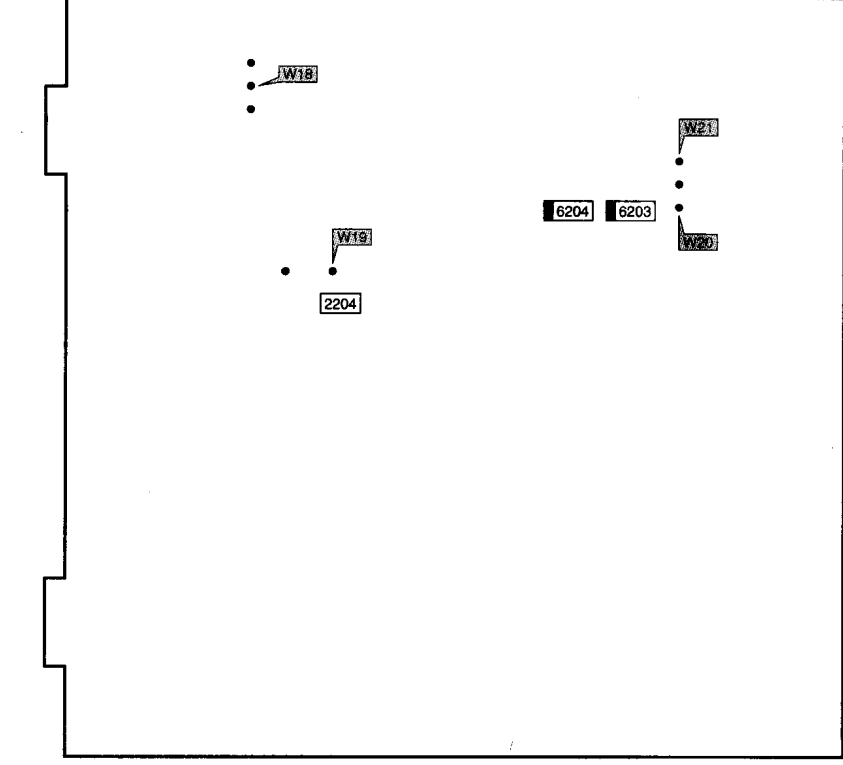
Active surround box amplifier (W1)



(COPPER -SIDE)

CL 96532042_055.ai
210699

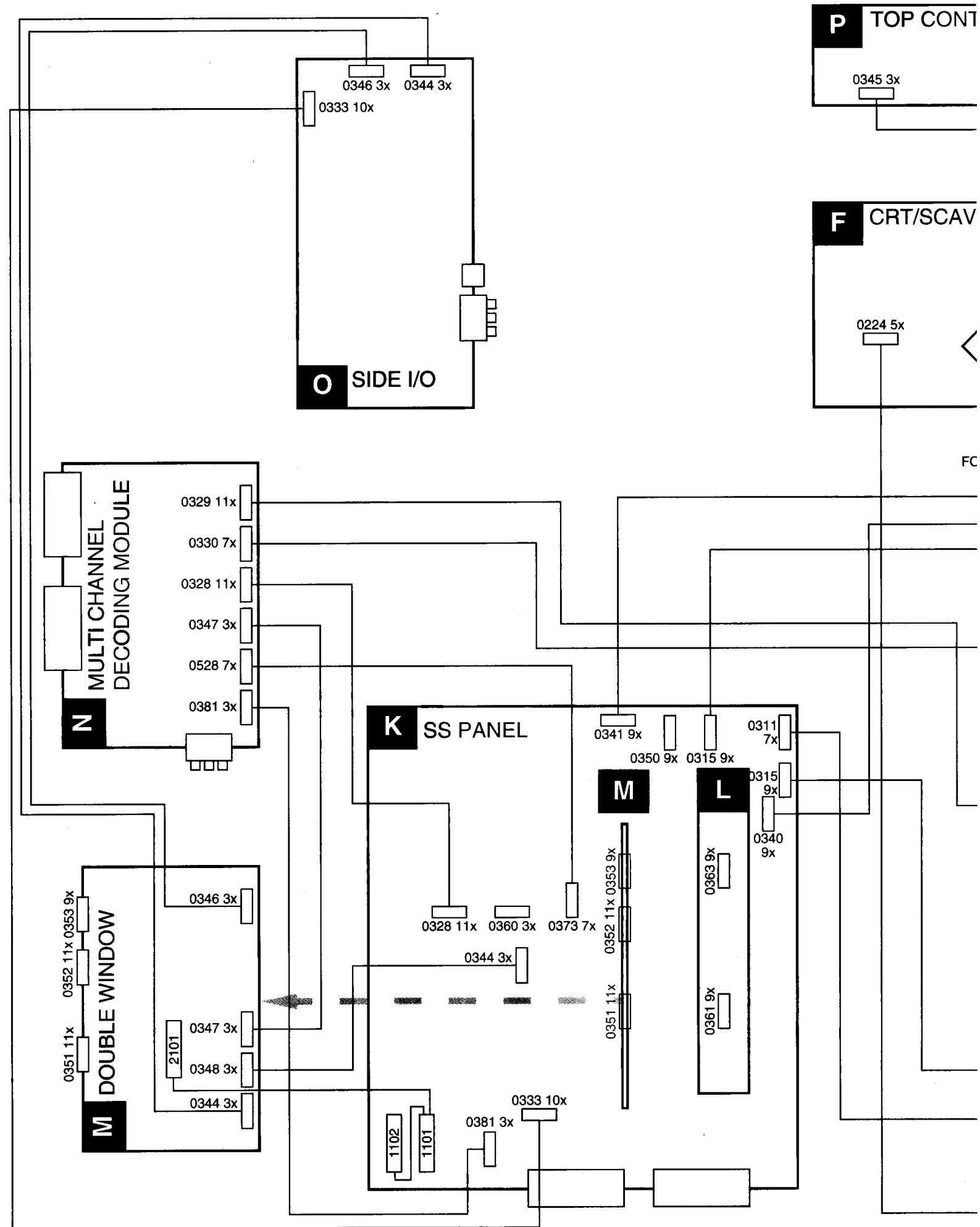
Active surround box supply (W2)



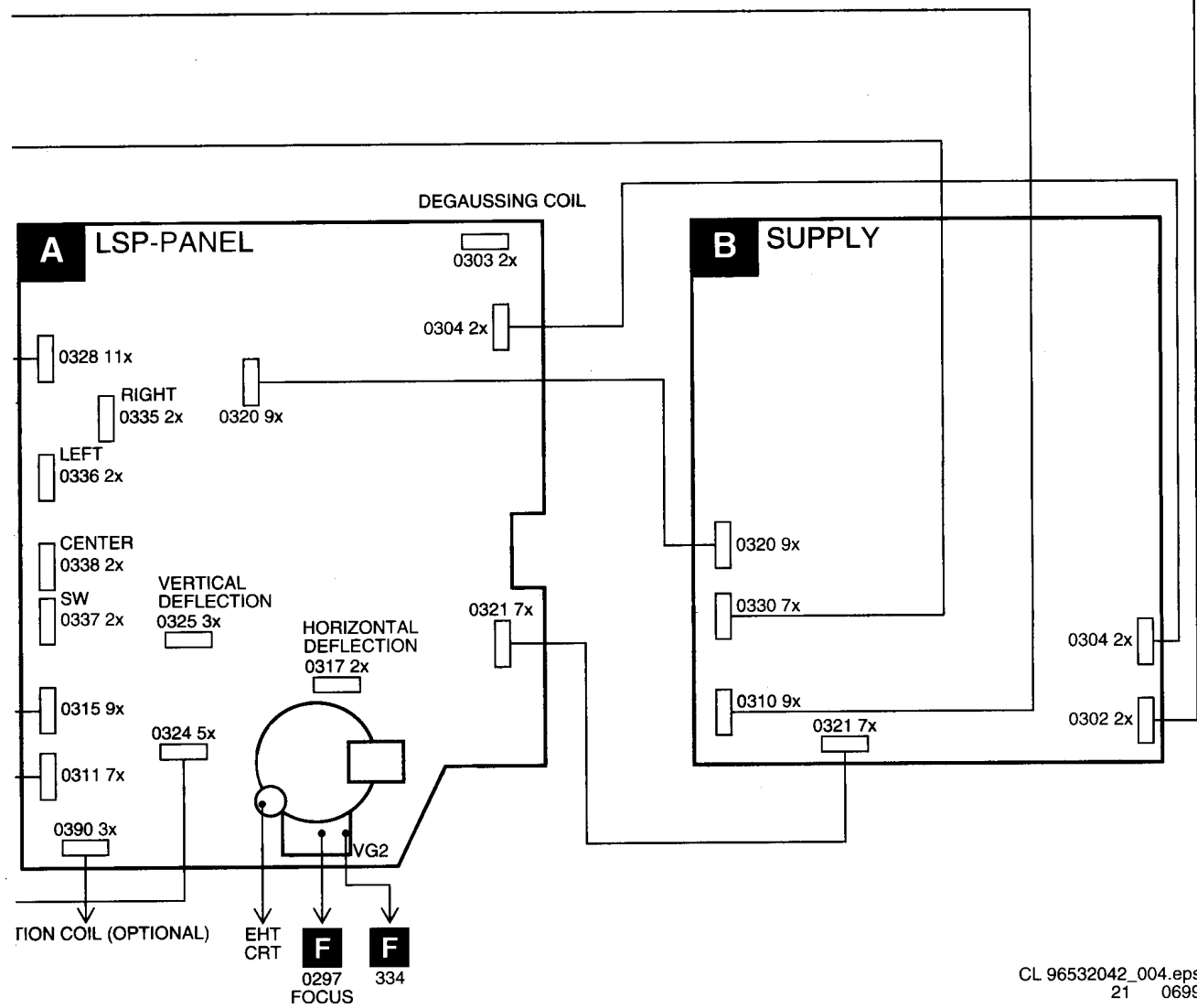
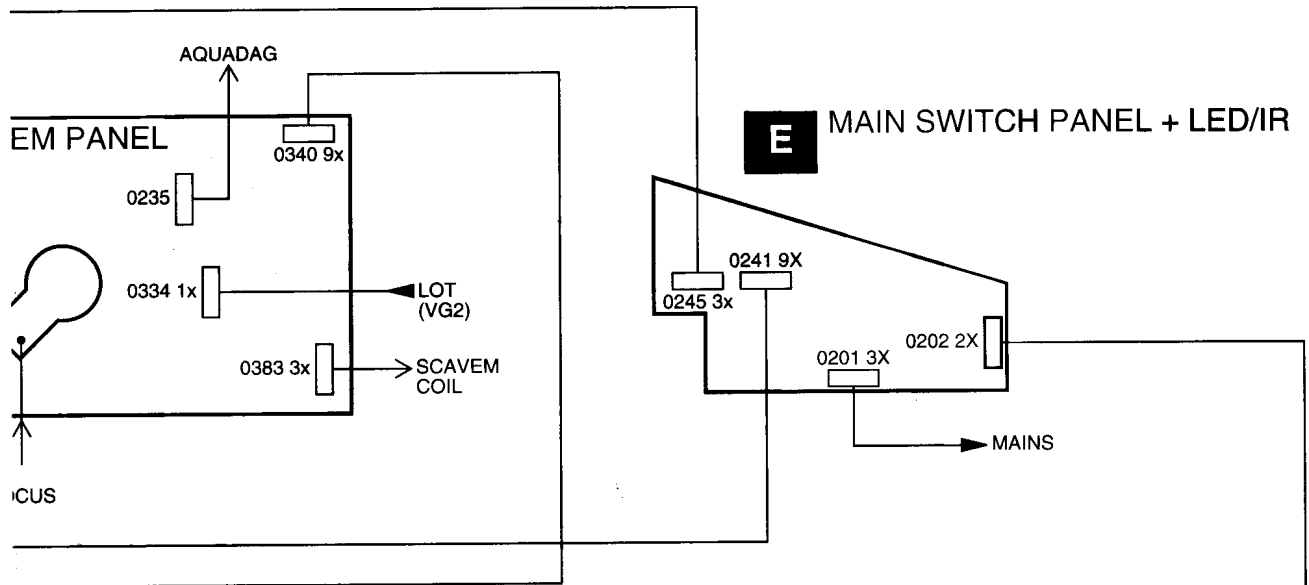
(COPPER-SIDE)

CL 96532042_054.eps
210699

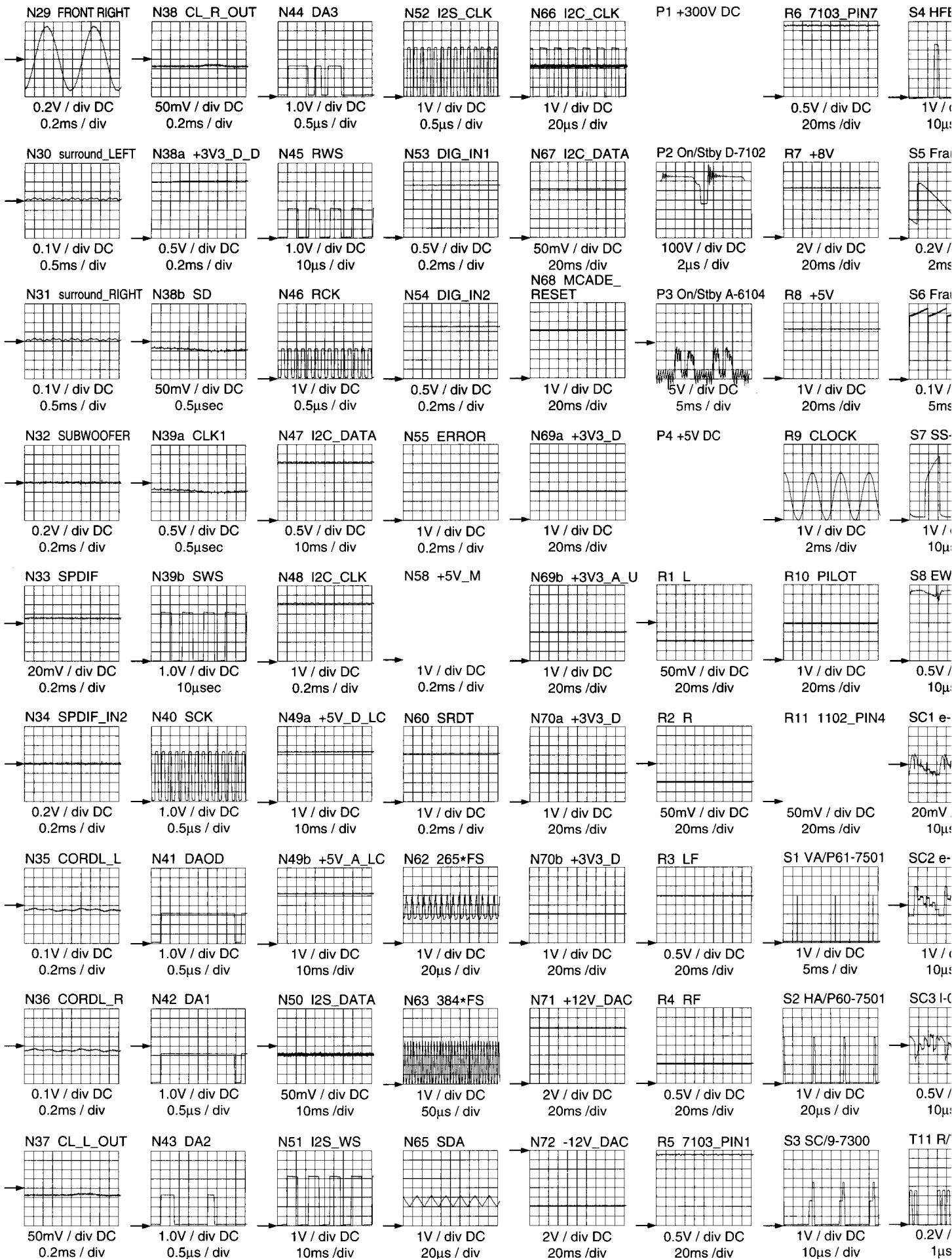
Wiring diagram

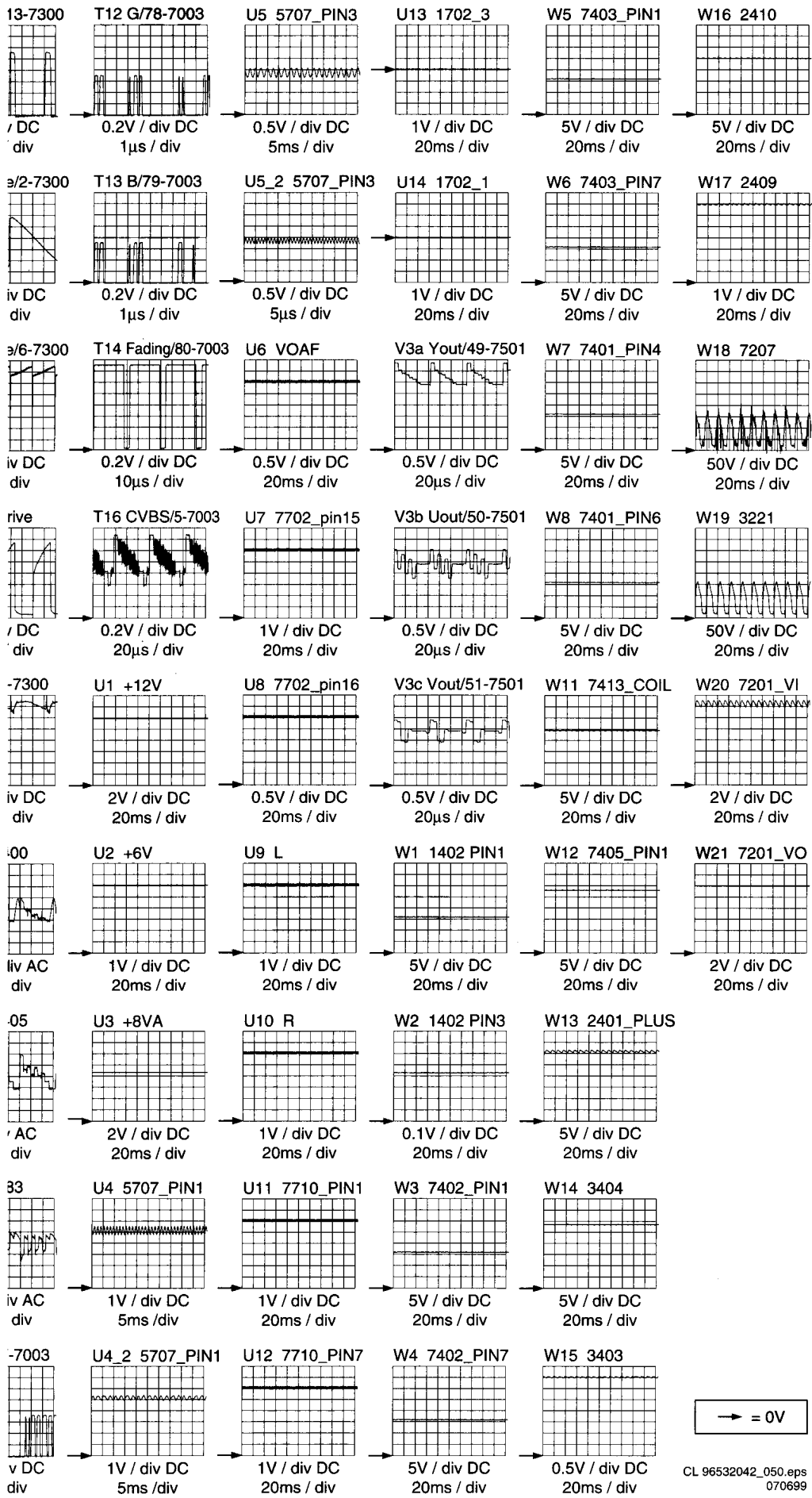


ROL



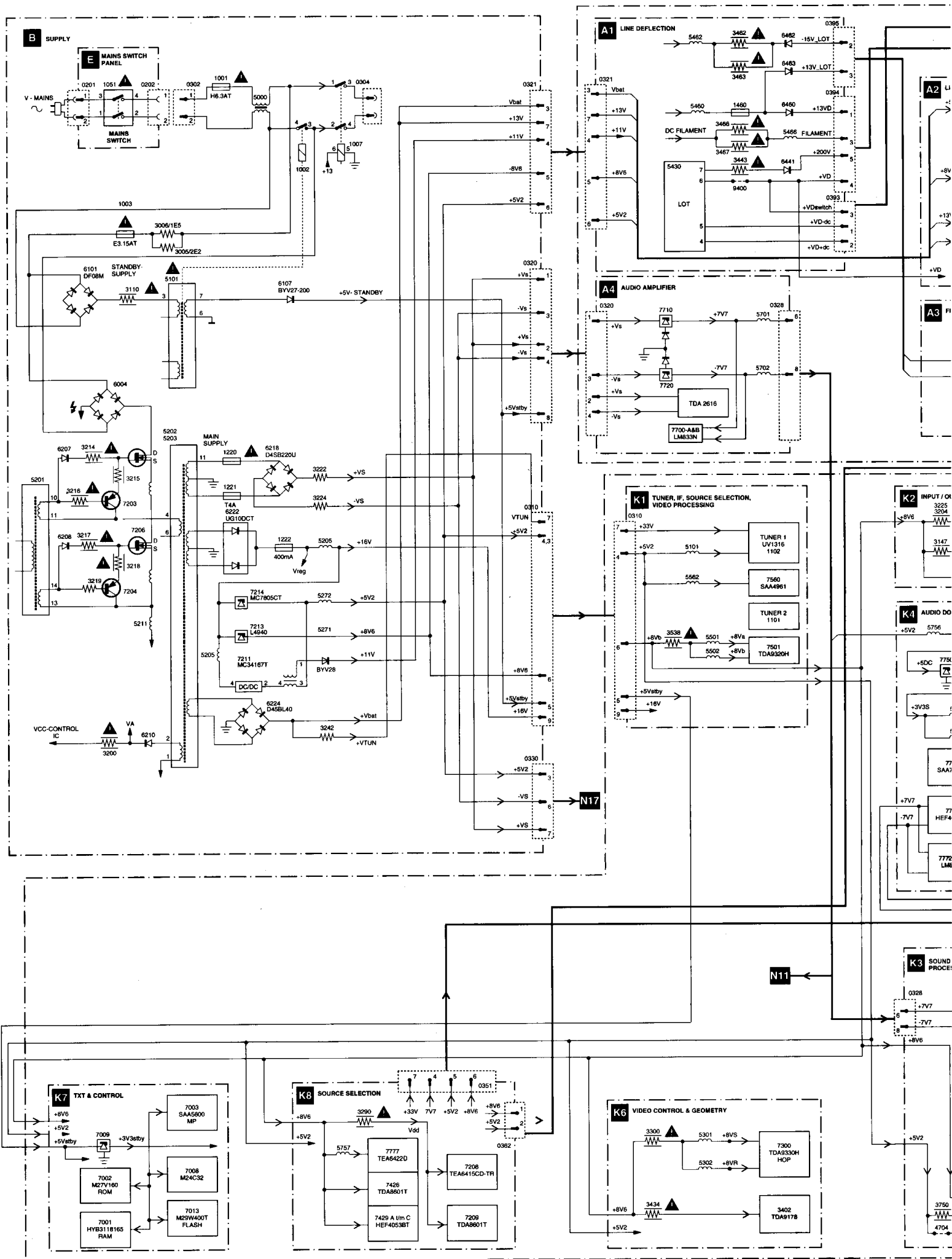
Waveforms

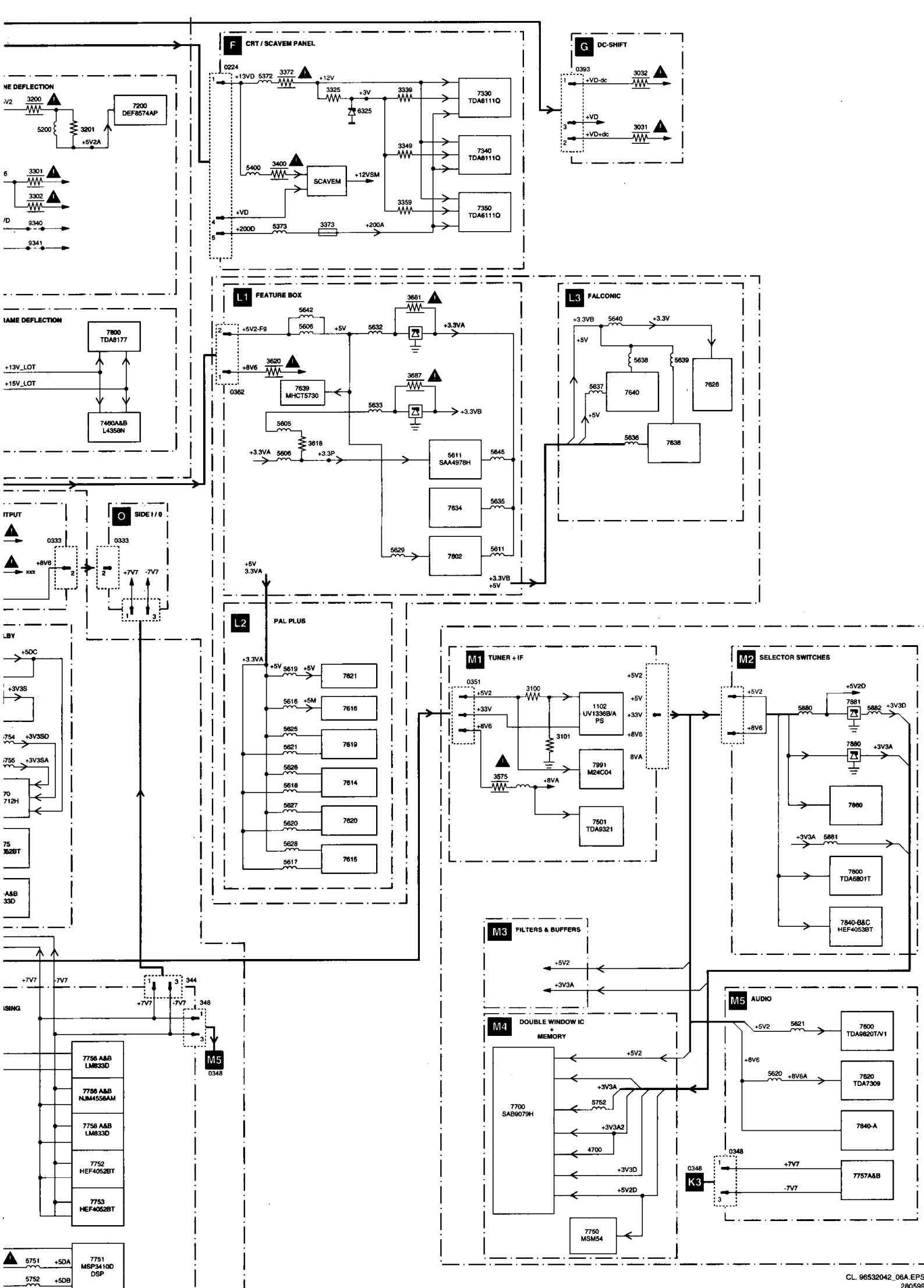




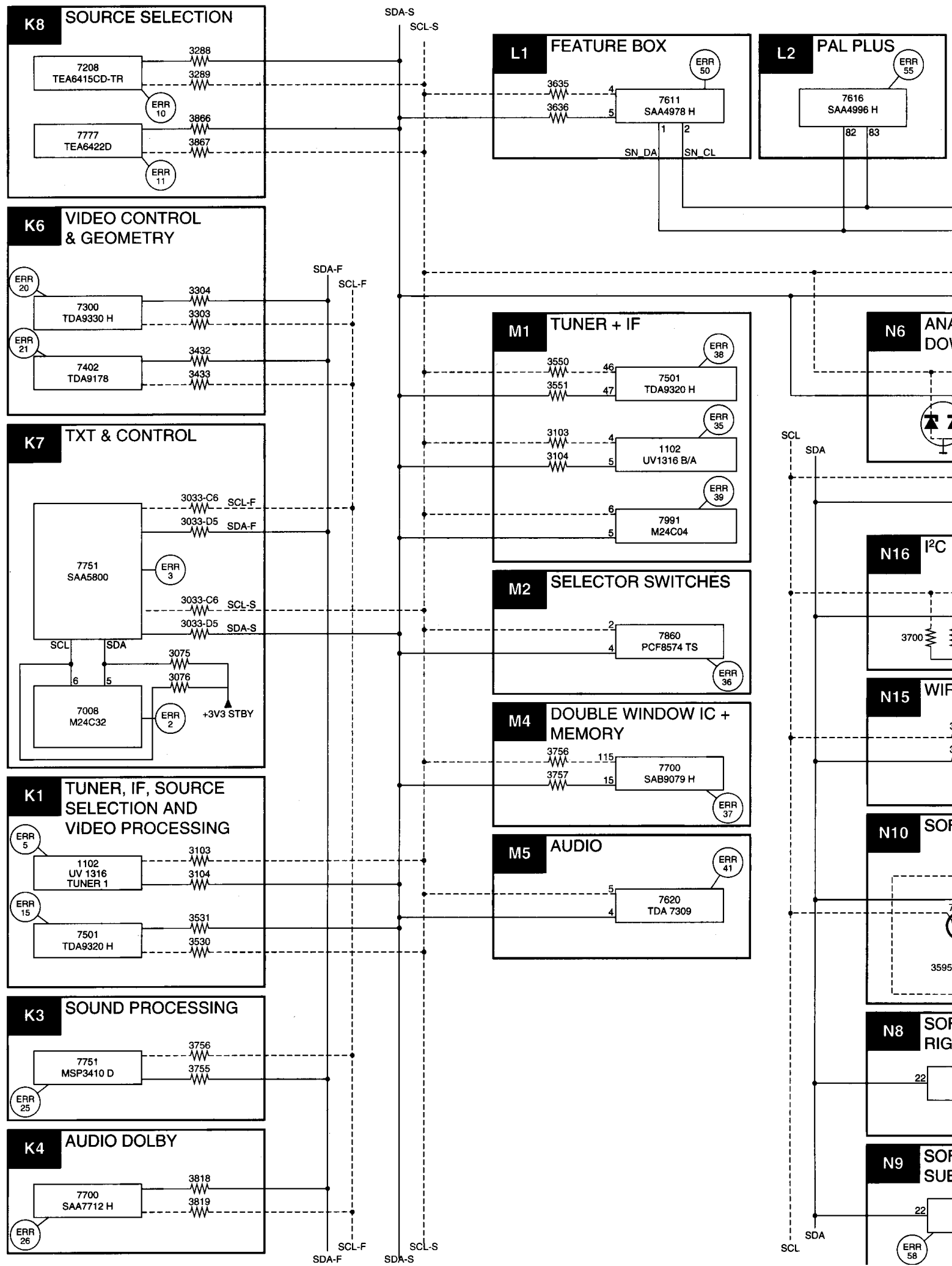
→ = 0V

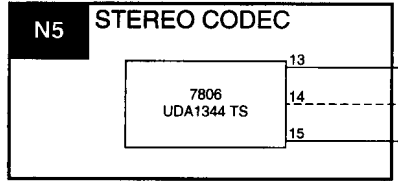
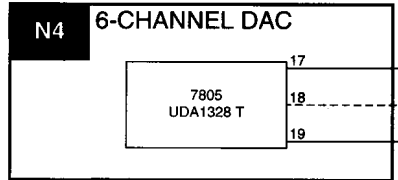
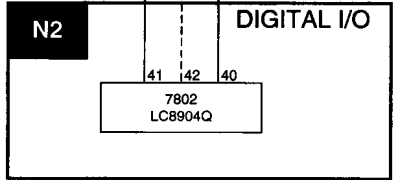
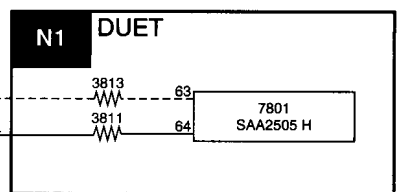
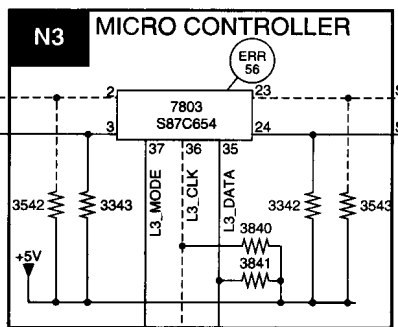
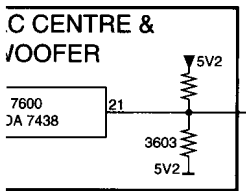
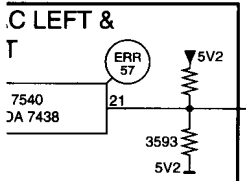
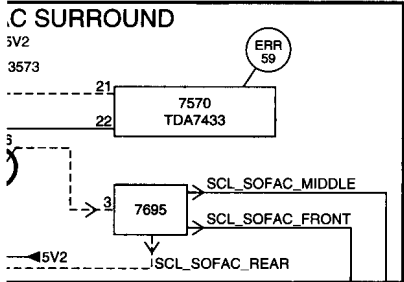
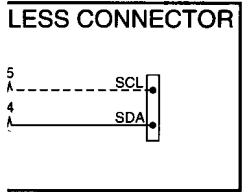
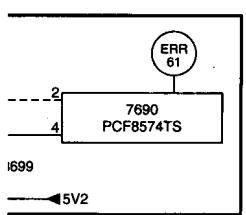
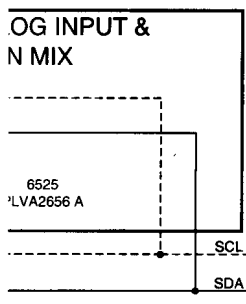
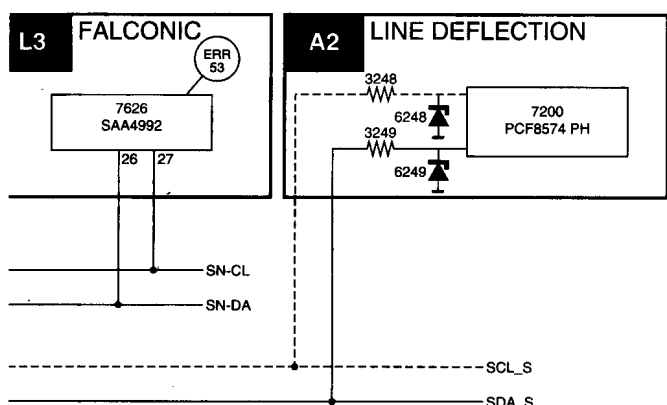
Supply lines overview





IIC IC's overview





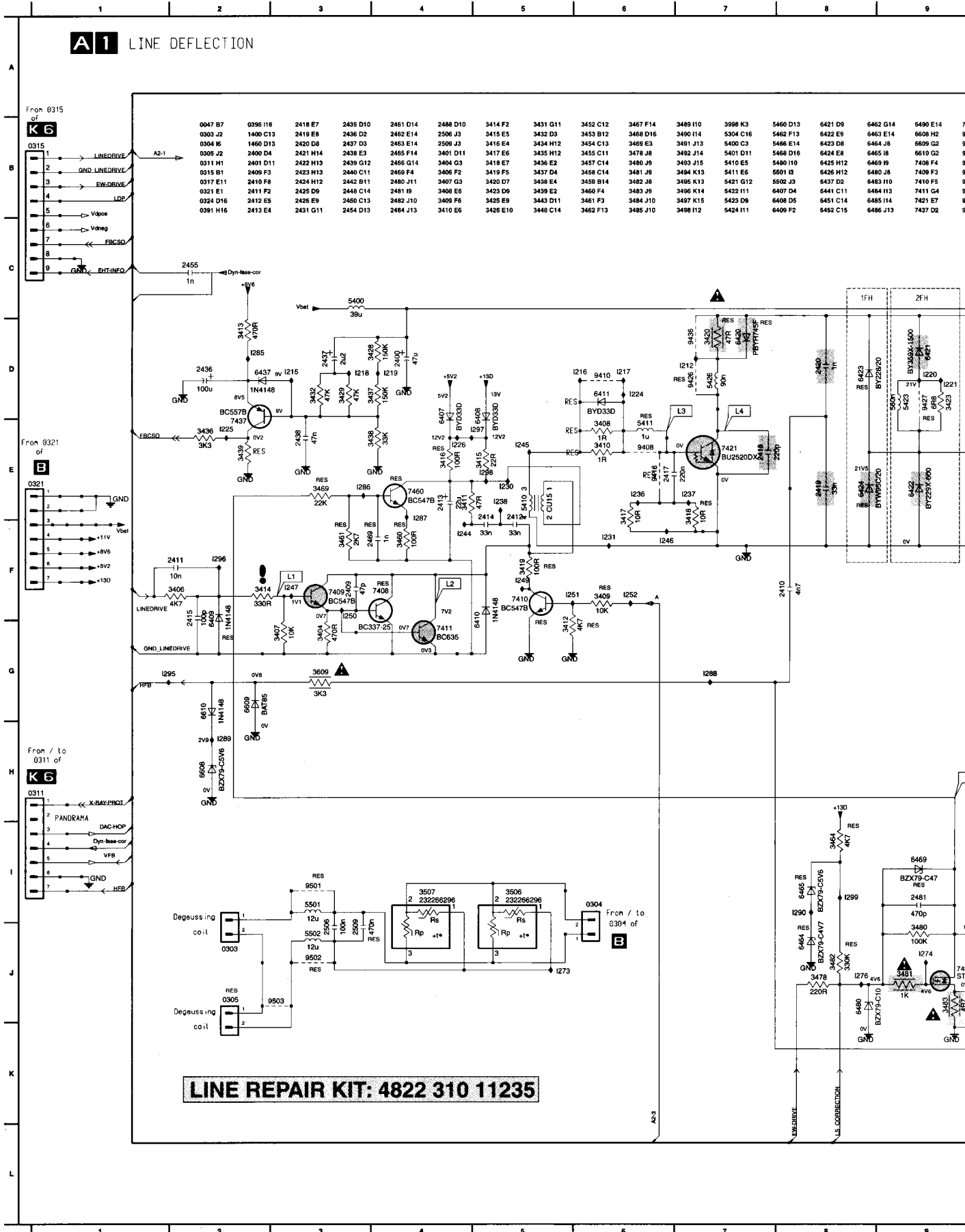
ERROR CODES

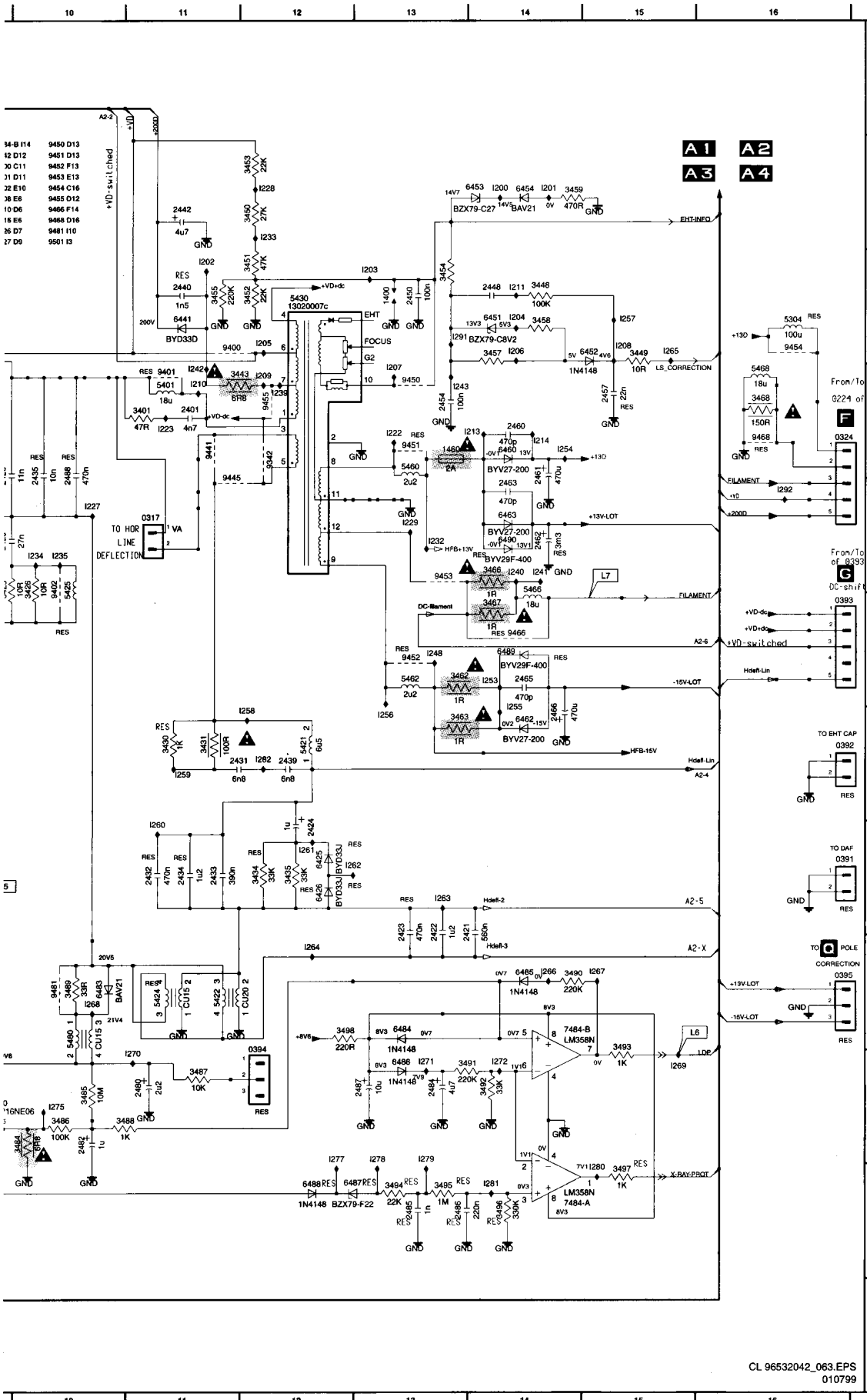
ERR 65 BLOCKED SLOW - I²C (SCL-S, SDA-S)

ERR 66 BLOCKED FAST - I²C (SCL-F, SDA-F)

7. Circuit diagrams and PWB lay-outs

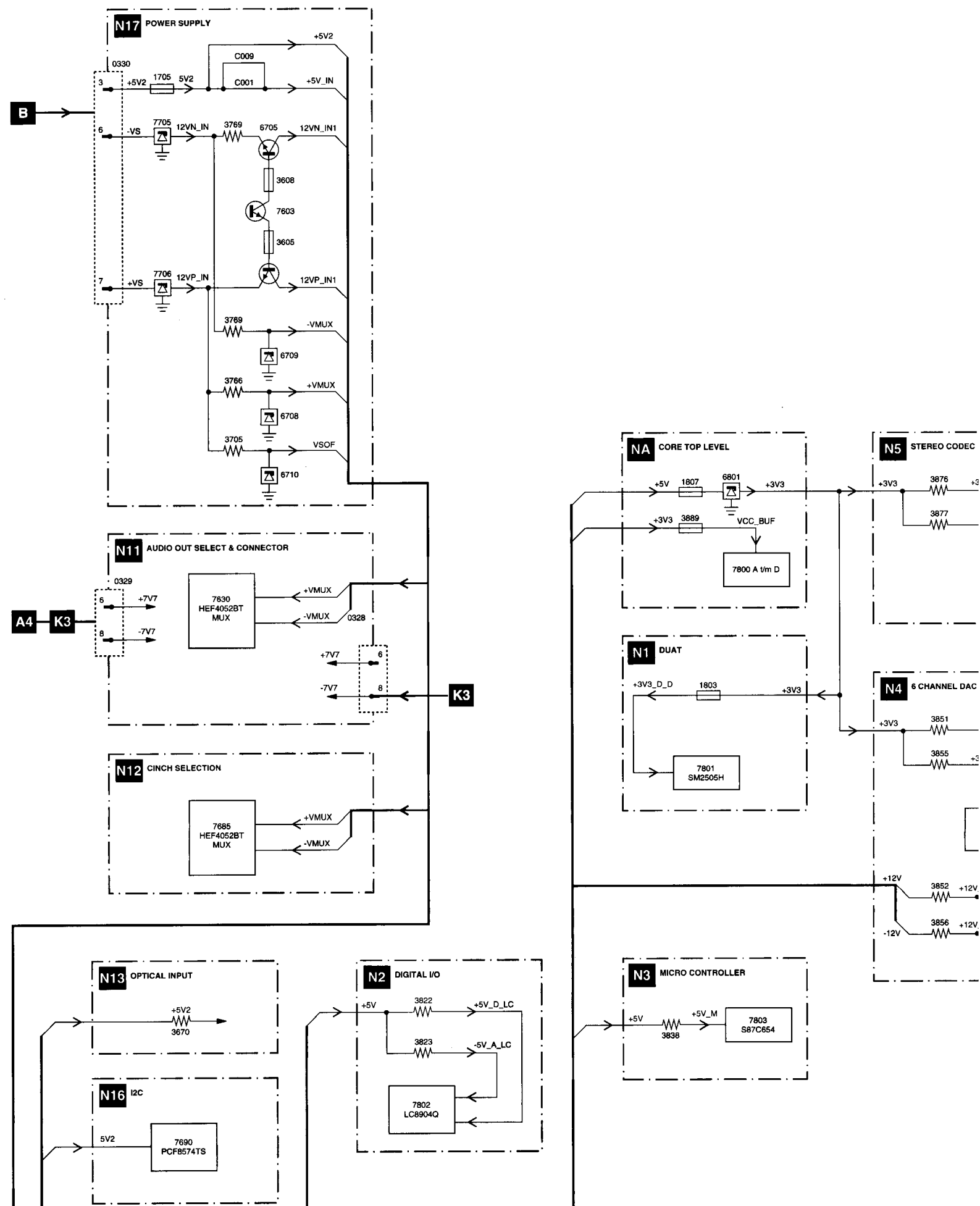
Line deflection

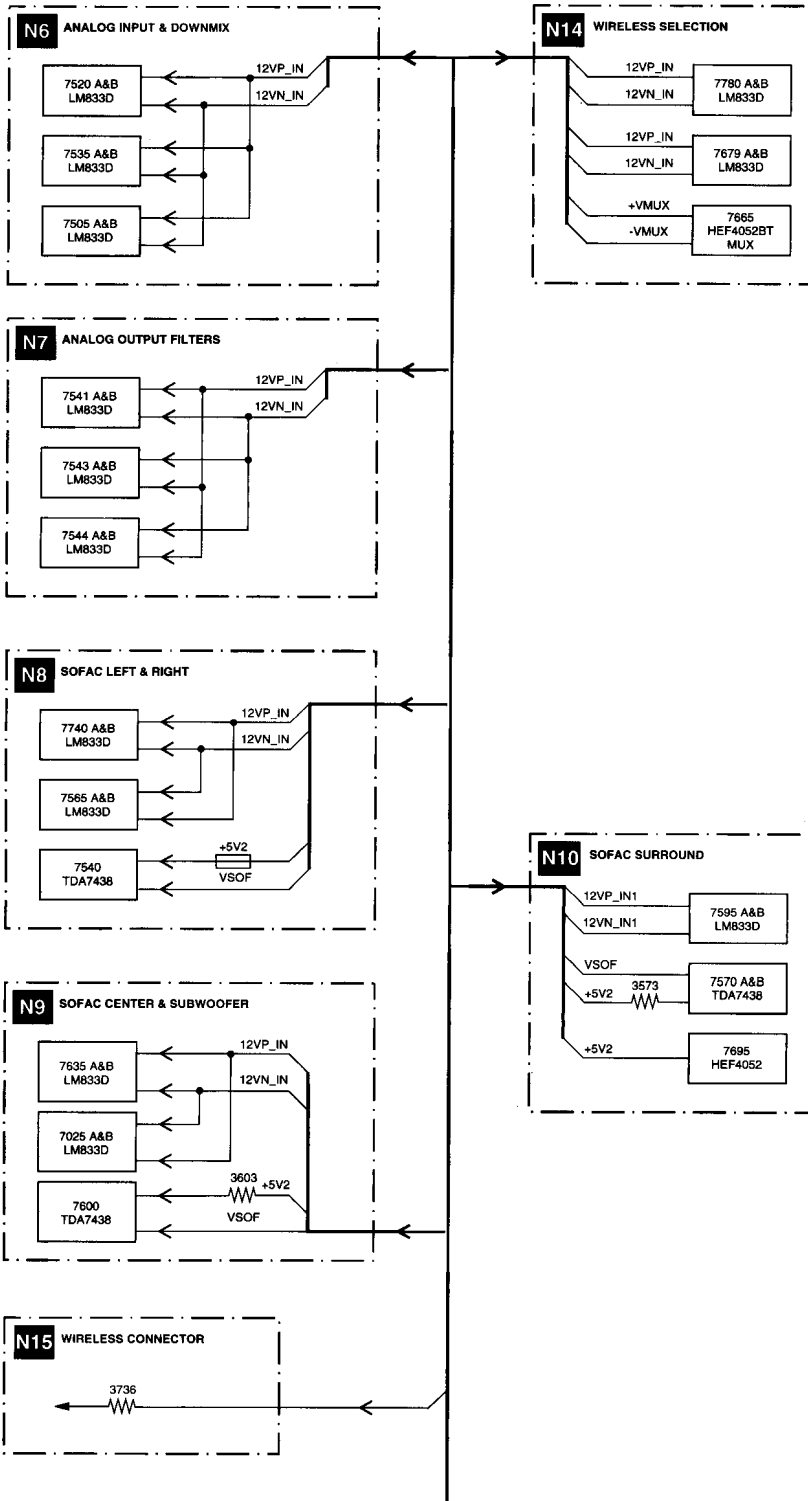




| Diagram | | 1 | 2 | 3 | 28" WS | | |
|---------|------|------|---|---|--------|----------------|-------|
| A1 | 1 | | | | | | |
| | 2 | | | | 32" WS | | |
| | 3 | | | | 29" SF | | |
| A | Item | | 1 | 2 | 3 | Description | |
| | 0391 | | | | | 4822 267 10973 | |
| | 0392 | | | | | 4822 267 10973 | |
| B | 0394 | | | | | 4822 267 10969 | |
| | 0395 | | | | | 4822 267 10969 | |
| | 2401 | X | X | X | | 4.7nF | |
| | 2419 | X | X | X | | 33nF | |
| | 2420 | X | X | X | | 1nF | |
| | 2421 | X | X | X | | 560nF | |
| | 2421 | X | X | X | | 560nF | |
| | 2422 | X | X | X | | 1.2uF | |
| | 2425 | X | X | X | | 10nF | |
| | 2426 | X | X | X | | 24nF | |
| | 2426 | X | X | X | | 27nF | |
| | 2433 | X | X | X | | 390nF | |
| | 2433 | X | X | X | | 560nF | |
| | 2433 | X | X | X | | 430nF | |
| | C | 2448 | X | X | X | | 8.2nF |
| 2448 | | X | X | X | | 12nF | |
| 2448 | | X | X | X | | 1nF | |
| 2448 | | X | X | X | | 1nF | |
| 2455 | | X | X | X | | 1nF | |
| 2461 | | X | X | X | | 470uF | |
| 2466 | | X | X | X | | 470uF | |
| 2506 | | X | X | X | | 100nF | |
| 2625 | | X | X | X | | 47nF | |
| D | | 3401 | X | X | X | | 470 |
| | | 3451 | X | X | X | | 27k |
| | | 3452 | X | X | X | | 220k |
| | | 3455 | X | X | X | | 390k |
| | | 3457 | X | X | X | | 560k |
| | | 3457 | X | X | X | | 560k |
| | 3457 | X | X | X | | 120k | |
| | 3458 | X | X | X | | 120k | |
| | 3458 | X | X | X | | 220k | |
| | 3465 | X | X | X | | 150Q | |
| | 3467 | X | X | X | | 1Q | |
| | 3480 | X | X | X | | 56k | |
| | 3480 | X | X | X | | 68k | |
| | 3483 | X | X | X | | 4.7Q | |
| | E | 3484 | X | X | X | | 10Q |
| 3484 | | X | X | X | | 4.7Q | |
| 3485 | | X | X | X | | 5M6 | |
| 3485 | | X | X | X | | 7M5 | |
| 3487 | | X | X | X | | 10k | |
| 3507 | | X | X | X | | PTC/PTC | |
| 3601 | | X | X | X | | 1.5Q | |
| 3601 | | X | X | X | | 1Q | |
| 3602 | | X | X | X | | 1.5Q | |
| 3602 | | X | X | X | | 1Q | |
| F | | 0393 | | | | | |
| | | 0394 | | | | | |
| | | 0395 | | | | | |
| | | 0396 | | | | | |
| | | 0397 | | | | | |
| | 0398 | | | | | | |
| | 0399 | | | | | | |
| | 0400 | | | | | | |
| | 0401 | | | | | | |
| | 0402 | | | | | | |
| | 0403 | | | | | | |
| | 0404 | | | | | | |
| | 0405 | | | | | | |
| | 0406 | | | | | | |
| | G | 0407 | | | | | |
| 0408 | | | | | | | |
| 0409 | | | | | | | |
| 0410 | | | | | | | |
| 0411 | | | | | | | |
| 0412 | | | | | | | |
| 0413 | | | | | | | |
| 0414 | | | | | | | |
| 0415 | | | | | | | |
| 0416 | | | | | | | |
| 0417 | | | | | | | |
| 0418 | | | | | | | |
| 0419 | | | | | | | |
| 0420 | | | | | | | |
| H | | 0421 | | | | | |
| | 0422 | | | | | | |
| | 0423 | | | | | | |
| | 0424 | | | | | | |
| | 0425 | | | | | | |
| | 0426 | | | | | | |
| | 0427 | | | | | | |
| | 0428 | | | | | | |
| | 0429 | | | | | | |
| | 0430 | | | | | | |
| | 0431 | | | | | | |
| | 0432 | | | | | | |
| | 0433 | | | | | | |
| | 0434 | | | | | | |
| | I | 0435 | | | | | |
| 0436 | | | | | | | |
| 0437 | | | | | | | |
| 0438 | | | | | | | |
| 0439 | | | | | | | |
| 0440 | | | | | | | |
| 0441 | | | | | | | |
| 0442 | | | | | | | |
| 0443 | | | | | | | |
| 0444 | | | | | | | |
| 0445 | | | | | | | |
| 0446 | | | | | | | |
| 0447 | | | | | | | |
| 0448 | | | | | | | |
| J | | 0449 | | | | | |
| | 0450 | | | | | | |
| | 0451 | | | | | | |
| | 0452 | | | | | | |
| | 0453 | | | | | | |
| | 0454 | | | | | | |
| | 0455 | | | | | | |
| | 0456 | | | | | | |
| | 0457 | | | | | | |
| | 0458 | | | | | | |
| | 0459 | | | | | | |
| | 0460 | | | | | | |
| | 0461 | | | | | | |
| | 0462 | | | | | | |
| | K | 0463 | | | | | |
| 0464 | | | | | | | |
| 0465 | | | | | | | |
| 0466 | | | | | | | |
| 0467 | | | | | | | |
| 0468 | | | | | | | |
| 0469 | | | | | | | |
| 0470 | | | | | | | |
| 0471 | | | | | | | |
| 0472 | | | | | | | |
| 0473 | | | | | | | |
| 0474 | | | | | | | |
| 0475 | | | | | | | |
| 0476 | | | | | | | |
| 0477 | | | | | | | |
| L | 0478 | | | | | | |
| | 0479 | | | | | | |
| | 0480 | | | | | | |
| | 0481 | | | | | | |
| | 0482 | | | | | | |
| | 0483 | | | | | | |
| | 0484 | | | | | | |
| | 0485 | | | | | | |
| | 0486 | | | | | | |
| | 0487 | | | | | | |
| | 0488 | | | | | | |
| | 0489 | | | | | | |
| | 0490 | | | | | | |
| | 0491 | | | | | | |

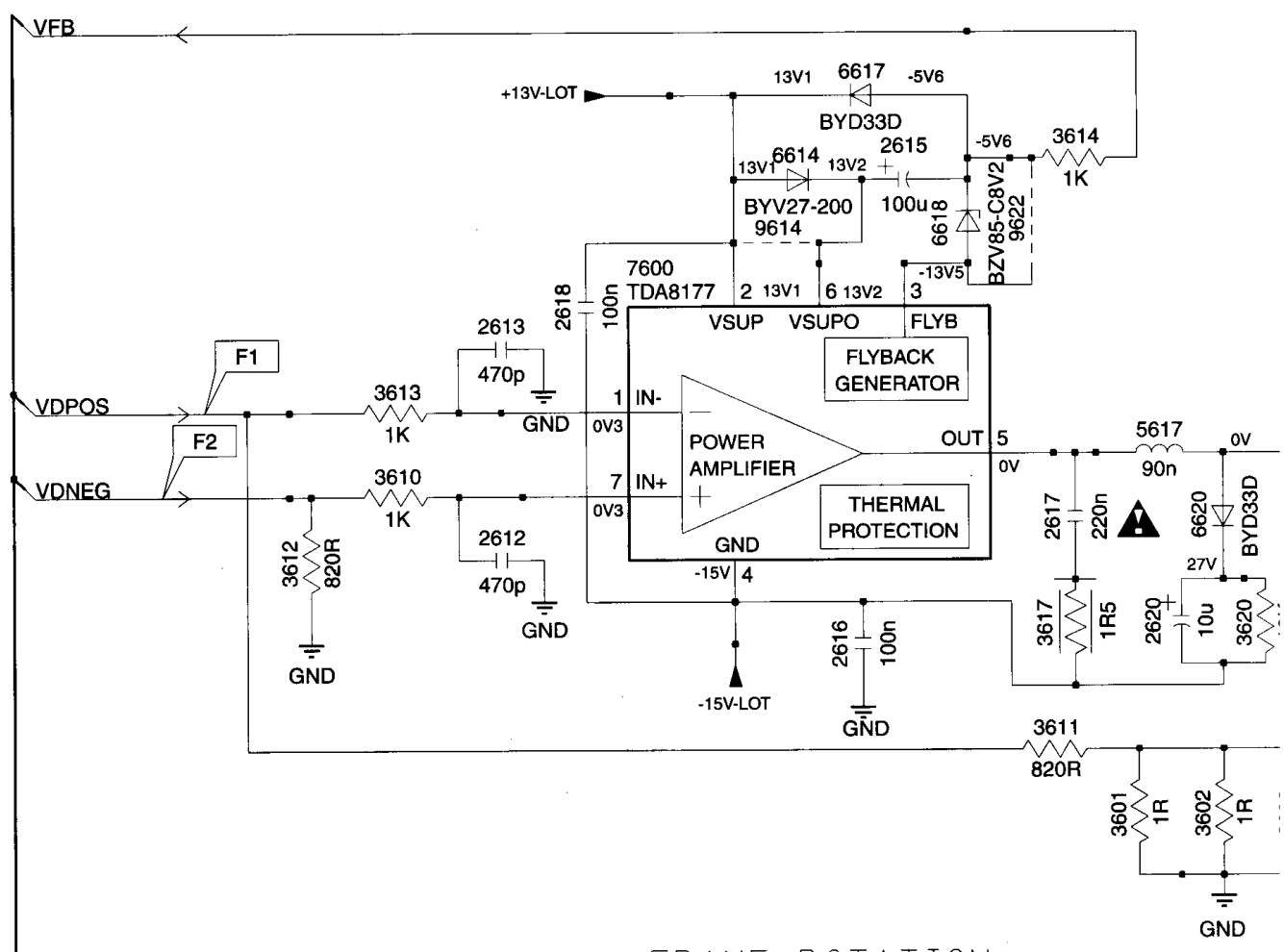
Supply lines overview (cont.)





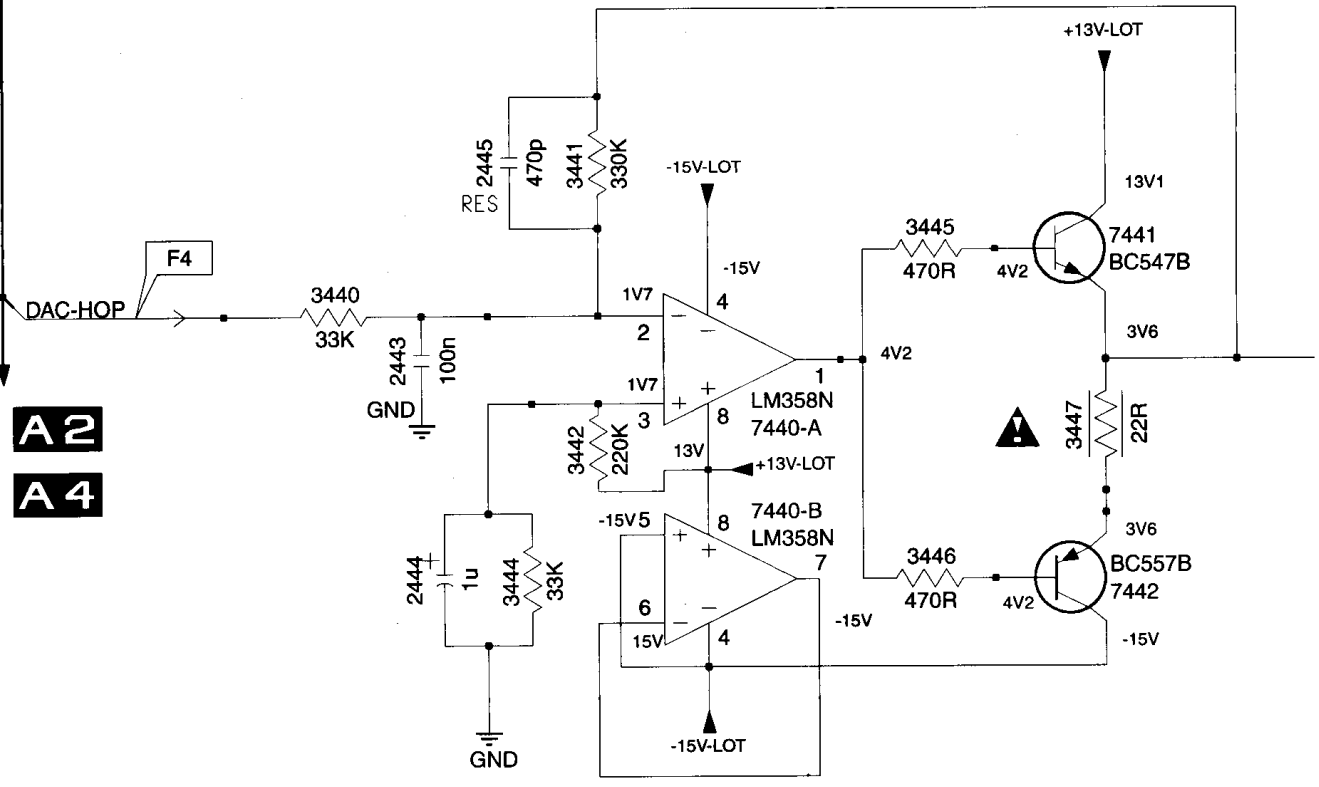
Frame deflection

A 3 FRAME DEFLECTION

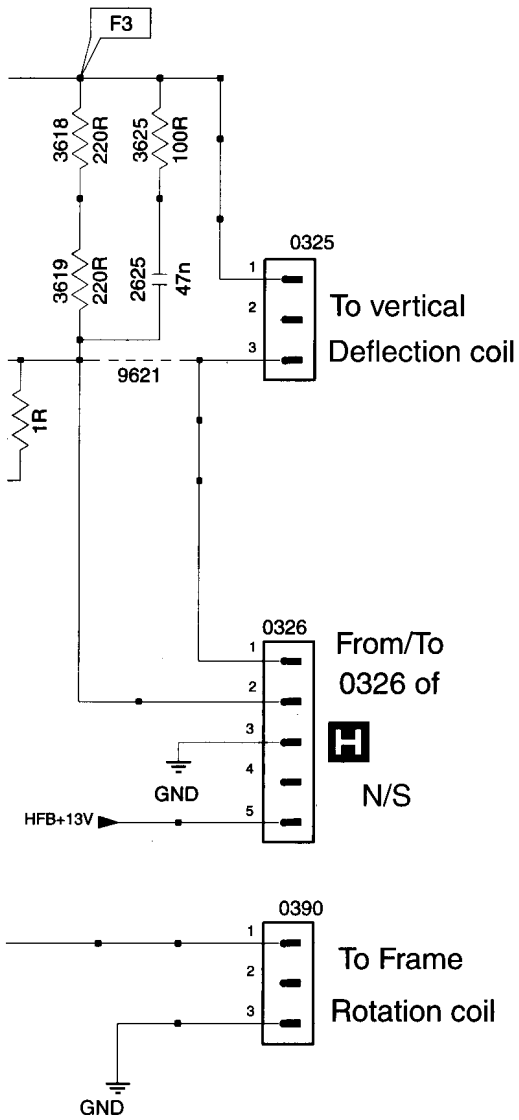


FRAME ROTATION

A 1 **A 2**
A 3 **A 4**



| Diagram | 1 | Rotation | |
|---------|---|-------------|----------------|
| A3 | 2 | No rotation | |
| Item | 1 | 2 | Description |
| 0390 | 1 | | 4822 267 10963 |
| 3440 | 1 | | 33k |
| 3441 | 1 | | 330k |
| 3442 | 1 | | 220k |
| 3444 | 1 | | 33k |
| 3445 | 1 | | 470Ω |
| 3446 | 1 | | 470Ω |
| 3447 | 1 | | 22Ω |
| 7440 | 1 | | LM358N |
| 7441 | 1 | | BC547B |
| 7442 | 1 | | BC557B |



- 0325 C6
- 0326 D6
- 0390 E6
- 2443 E2
- 2444 F2
- 2445 E2
- 2612 B2
- 2613 B2
- 2615 A4
- 2616 C4
- 2617 B4
- 2618 B3
- 2620 C5
- 2625 C6
- 3440 E2
- 3441 E3
- 3442 F3
- A**
- 3444 F2
- 3445 E4
- 3446 F4
- 3447 E4
- 3601 C4
- 3602 C5
- 3603 C5
- 3610 B2
- 3611 C4
- C**
- 3612 C2
- 3613 B2
- 3614 A4
- 3617 C4
- 3618 B5
- 3619 C5
- 3620 C5
- 3625 B6
- 5617 B5
- 6614 A3
- D**
- 6617 A4
- 6618 A4
- 6620 B5
- 7440-A E3
- 7440-B F3
- 7441 E4
- 7442 F4
- 7600 B3
- 9614 A3
- E**
- 9621 C5
- 9622 A4

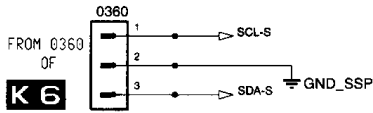
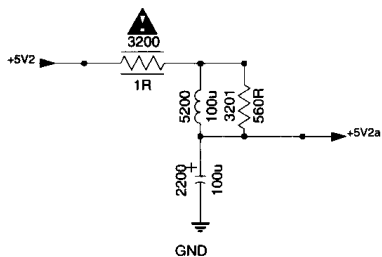
F

Line deflection (continued)

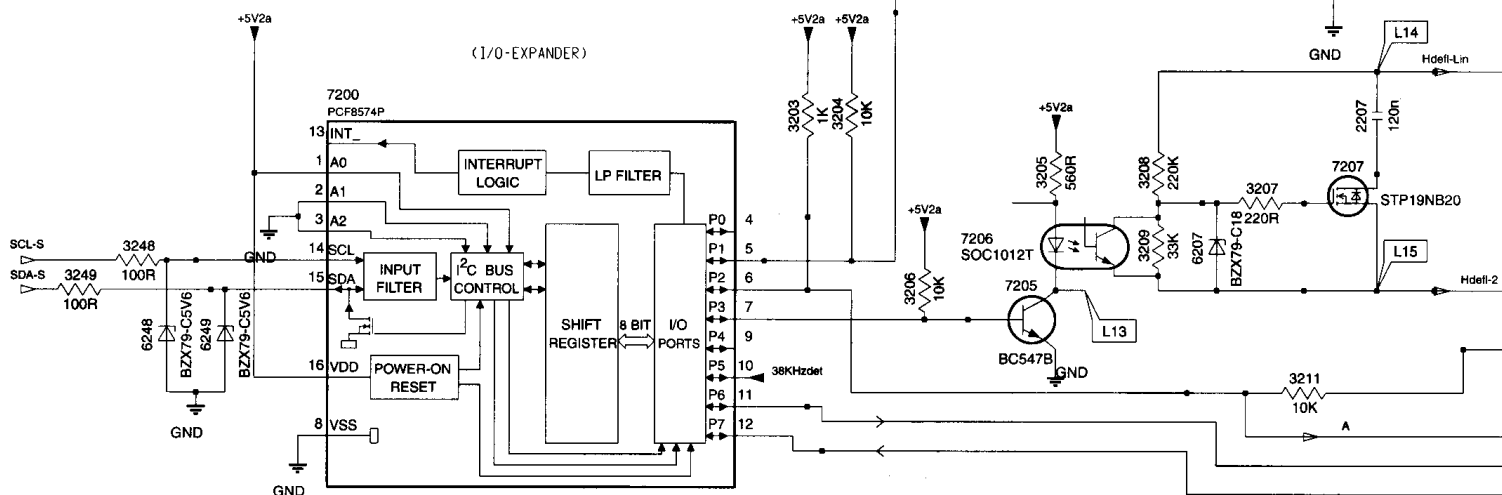
| | | | | | | | | | | | | | | |
|----------|---------|----------|---------|---------|---------|---------|----------|----------|----------|----------|----------|---------|-----------|---|
| 0049 A14 | 2217 B9 | 2308 G6 | 3204 D4 | 3212 D9 | 3249 D1 | 3310 H5 | 3318 G8 | 3341 C11 | 3349 B12 | 5302 H4 | 6301 H5 | 7200 D2 | 7216 B7 | 7 |
| 0055 D11 | 2301 G3 | 2309 G7 | 3205 D5 | 3213 D8 | 3301 G2 | 3311 H6 | 3319 F8 | 3342 C11 | 3350 B13 | 5303 G11 | 6302 G5 | 7205 E5 | 7217 B9 | 7 |
| 0056 D11 | 2302 G4 | 2312 H11 | 3206 E5 | 3214 D8 | 3302 G2 | 3312 H6 | 3320 G7 | 3343 C11 | 3351 G2 | 5405 H10 | 6303 H6 | 7206 D5 | 7301-A G2 | 7 |
| 0058 E11 | 2303 G4 | 2340 C12 | 3207 D6 | 3215 B7 | 3303 H2 | 3313 H6 | 3322 G9 | 3344 C13 | 3353 C14 | 6207 D6 | 6304 G7 | 7207 D7 | 7301-B G3 | 7 |
| 0360 B1 | 2304 H2 | 2341 B13 | 3208 D6 | 3217 B8 | 3304 G3 | 3314 F7 | 3323 H9 | 3345 B13 | 3354 C14 | 6212 D9 | 6307 G9 | 7210 E8 | 7302 G4 | 7 |
| 2200 B1 | 2305 H5 | 3200 A1 | 3209 D6 | 3218 B8 | 3305 G4 | 3315 G7 | 3324 G10 | 3346 C13 | 3355 D14 | 6217 B8 | 6308 H10 | 7211 D8 | 7303 G4 | 7 |
| 2207 D7 | 2306 G5 | 3201 A1 | 3210 D8 | 3219 B8 | 3308 F6 | 3316 F7 | 3325 G11 | 3347 D13 | 5200 A1 | 6248 E1 | 6340 B13 | 7212 D9 | 7305 G6 | 7 |

A2 LINE DEFLECTION(cont inued)

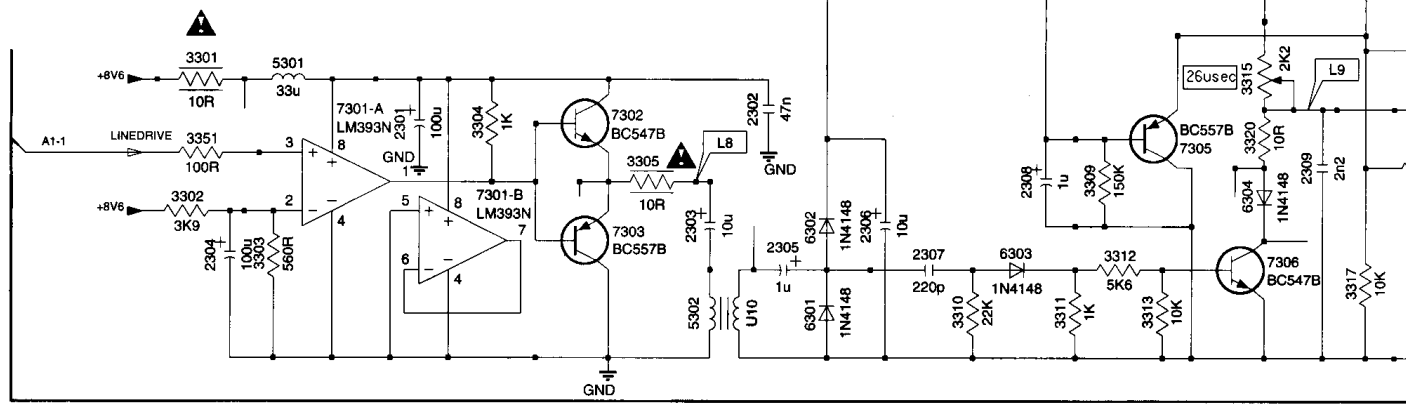
(DAF)



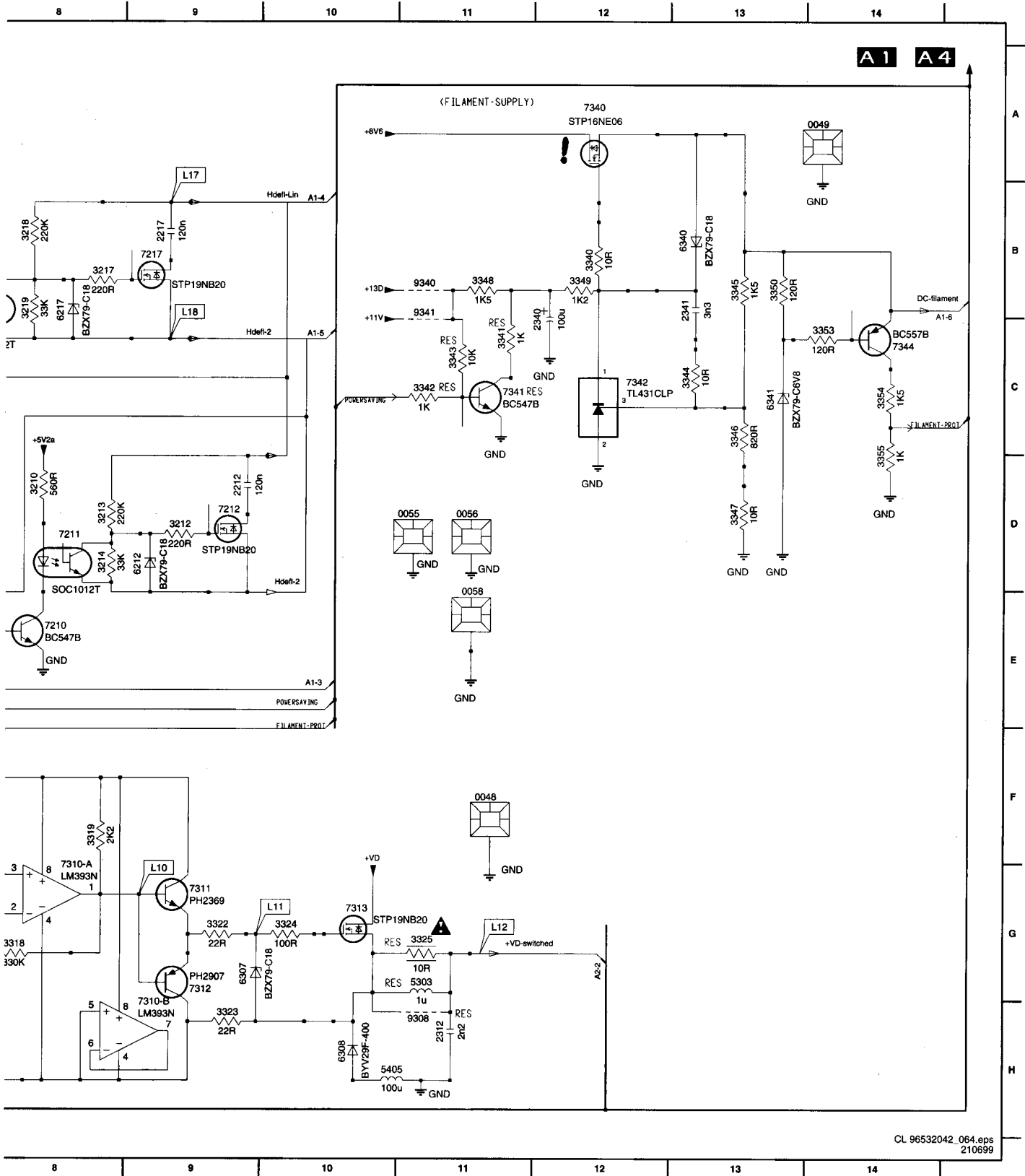
(I/O-EXPANDER)



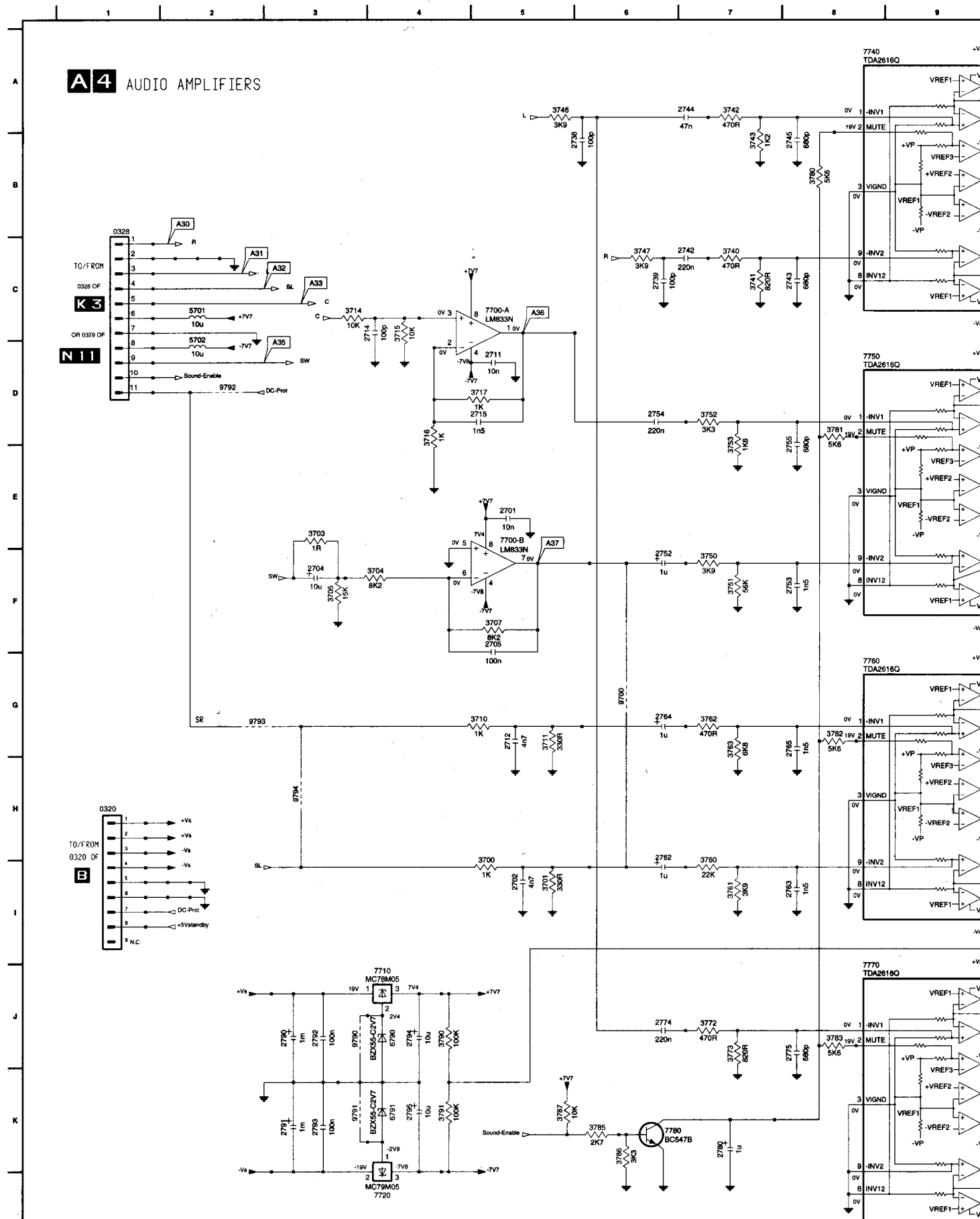
(VD-SWITCHED GENERATOR)

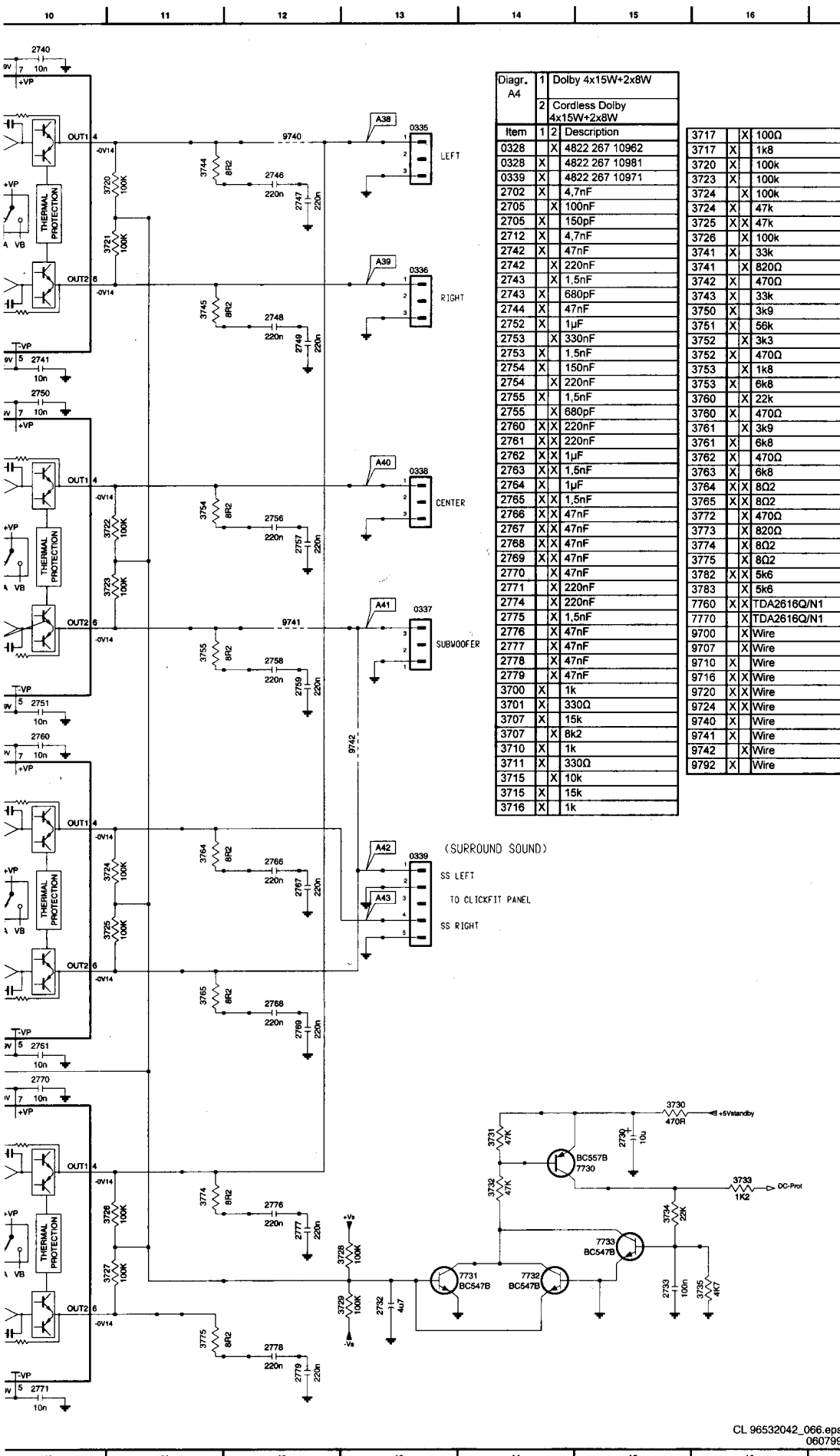


- 310-A G8 7344 C14
- 310-B H9 9308 H11
- 311 G9 9340 B11
- 312 G9 9341 B11
- 313 G10
- 340 A12
- 341 C11



Audio amplifiers



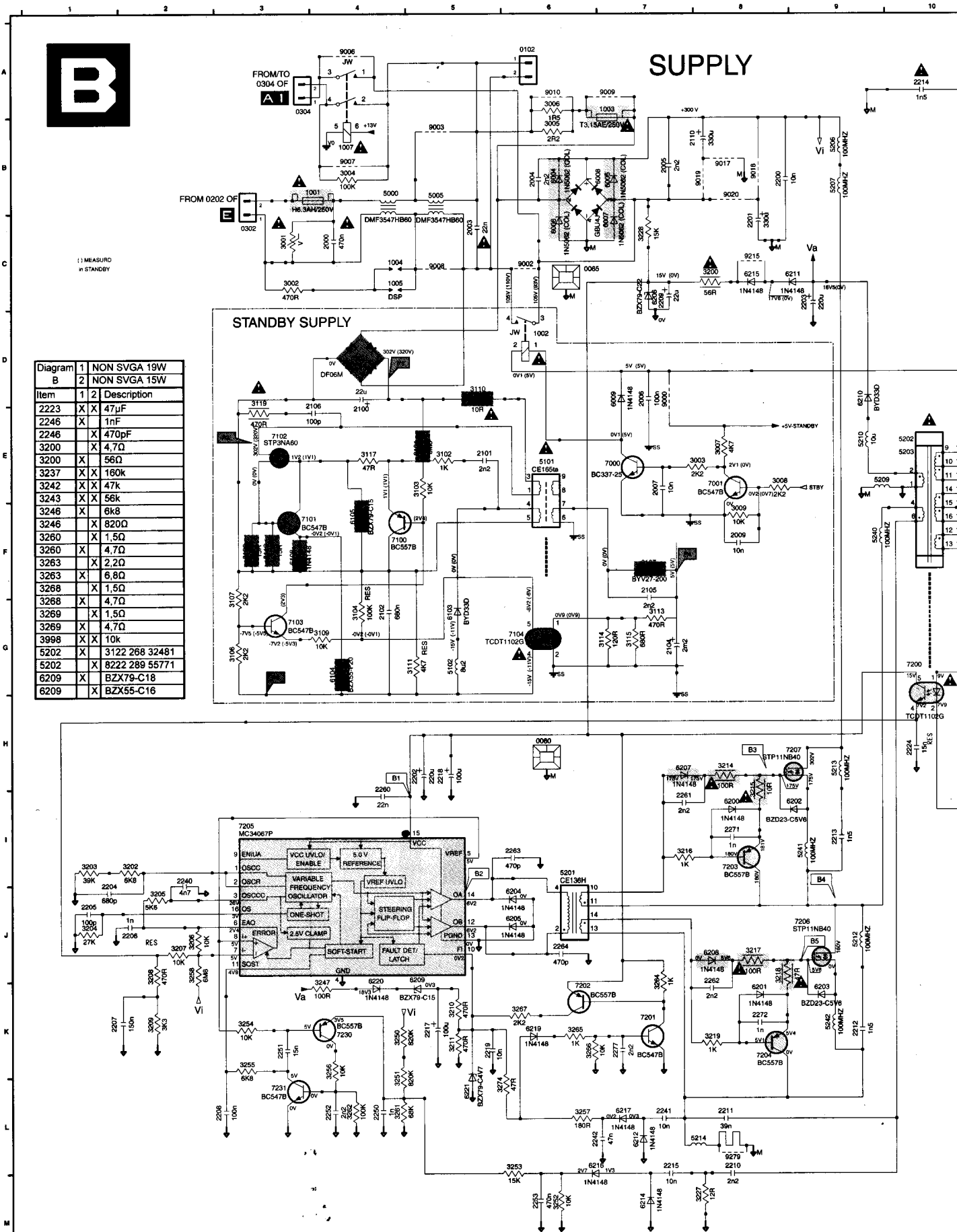


| Diagr. | 1 | 2 | Description |
|--------|---|---|---------------------------|
| A4 | 1 | 2 | Dolby 4x15W+2x8W |
| | 1 | 2 | Cordless Dolby 4x15W+2x8W |
| Item | 1 | 2 | Description |
| 0328 | X | X | 4822 267 10962 |
| 0328 | X | X | 4822 267 10981 |
| 0339 | X | X | 4822 267 10971 |
| 2702 | X | X | 4.7nF |
| 2705 | X | X | 100nF |
| 2705 | X | X | 150pF |
| 2712 | X | X | 4.7nF |
| 2742 | X | X | 47nF |
| 2742 | X | X | 220nF |
| 2743 | X | X | 1.5nF |
| 2743 | X | X | 680pF |
| 2744 | X | X | 47nF |
| 2752 | X | X | 1uF |
| 2753 | X | X | 330nF |
| 2753 | X | X | 1.5nF |
| 2754 | X | X | 150nF |
| 2754 | X | X | 220nF |
| 2755 | X | X | 1.5nF |
| 2755 | X | X | 680pF |
| 2780 | X | X | 220nF |
| 2781 | X | X | 220nF |
| 2782 | X | X | 1uF |
| 2783 | X | X | 1.5nF |
| 2764 | X | X | 1uF |
| 2765 | X | X | 1.5nF |
| 2766 | X | X | 47nF |
| 2767 | X | X | 47nF |
| 2768 | X | X | 47nF |
| 2769 | X | X | 47nF |
| 2770 | X | X | 47nF |
| 2771 | X | X | 220nF |
| 2774 | X | X | 220nF |
| 2775 | X | X | 1.5nF |
| 2776 | X | X | 47nF |
| 2777 | X | X | 47nF |
| 2778 | X | X | 47nF |
| 2779 | X | X | 47nF |
| 3700 | X | X | 1k |
| 3701 | X | X | 330Ω |
| 3707 | X | X | 15k |
| 3707 | X | X | 8k2 |
| 3710 | X | X | 1k |
| 3711 | X | X | 330Ω |
| 3715 | X | X | 10k |
| 3715 | X | X | 15k |
| 3716 | X | X | 1k |

| | | | |
|------|---|---|-------------|
| 3717 | X | X | 100Ω |
| 3717 | X | X | 1k8 |
| 3720 | X | X | 100k |
| 3723 | X | X | 100k |
| 3724 | X | X | 100k |
| 3724 | X | X | 47k |
| 3725 | X | X | 47k |
| 3726 | X | X | 100k |
| 3741 | X | X | 33k |
| 3741 | X | X | 820Ω |
| 3742 | X | X | 470Ω |
| 3743 | X | X | 33k |
| 3750 | X | X | 3k9 |
| 3751 | X | X | 56k |
| 3752 | X | X | 3k3 |
| 3752 | X | X | 470Ω |
| 3753 | X | X | 1k8 |
| 3753 | X | X | 6k8 |
| 3760 | X | X | 22k |
| 3760 | X | X | 470Ω |
| 3761 | X | X | 3k9 |
| 3761 | X | X | 6k8 |
| 3762 | X | X | 470Ω |
| 3763 | X | X | 6k8 |
| 3764 | X | X | 8Ω |
| 3765 | X | X | 8Ω |
| 3772 | X | X | 470Ω |
| 3773 | X | X | 820Ω |
| 3774 | X | X | 8Ω |
| 3775 | X | X | 8Ω |
| 3782 | X | X | 5k6 |
| 3783 | X | X | 5k6 |
| 7760 | X | X | TDA2616Q/N1 |
| 7770 | X | X | TDA2616Q/N1 |
| 9700 | X | X | Wire |
| 9707 | X | X | Wire |
| 9710 | X | X | Wire |
| 9716 | X | X | Wire |
| 9720 | X | X | Wire |
| 9724 | X | X | Wire |
| 9740 | X | X | Wire |
| 9741 | X | X | Wire |
| 9742 | X | X | Wire |
| 9792 | X | X | Wire |

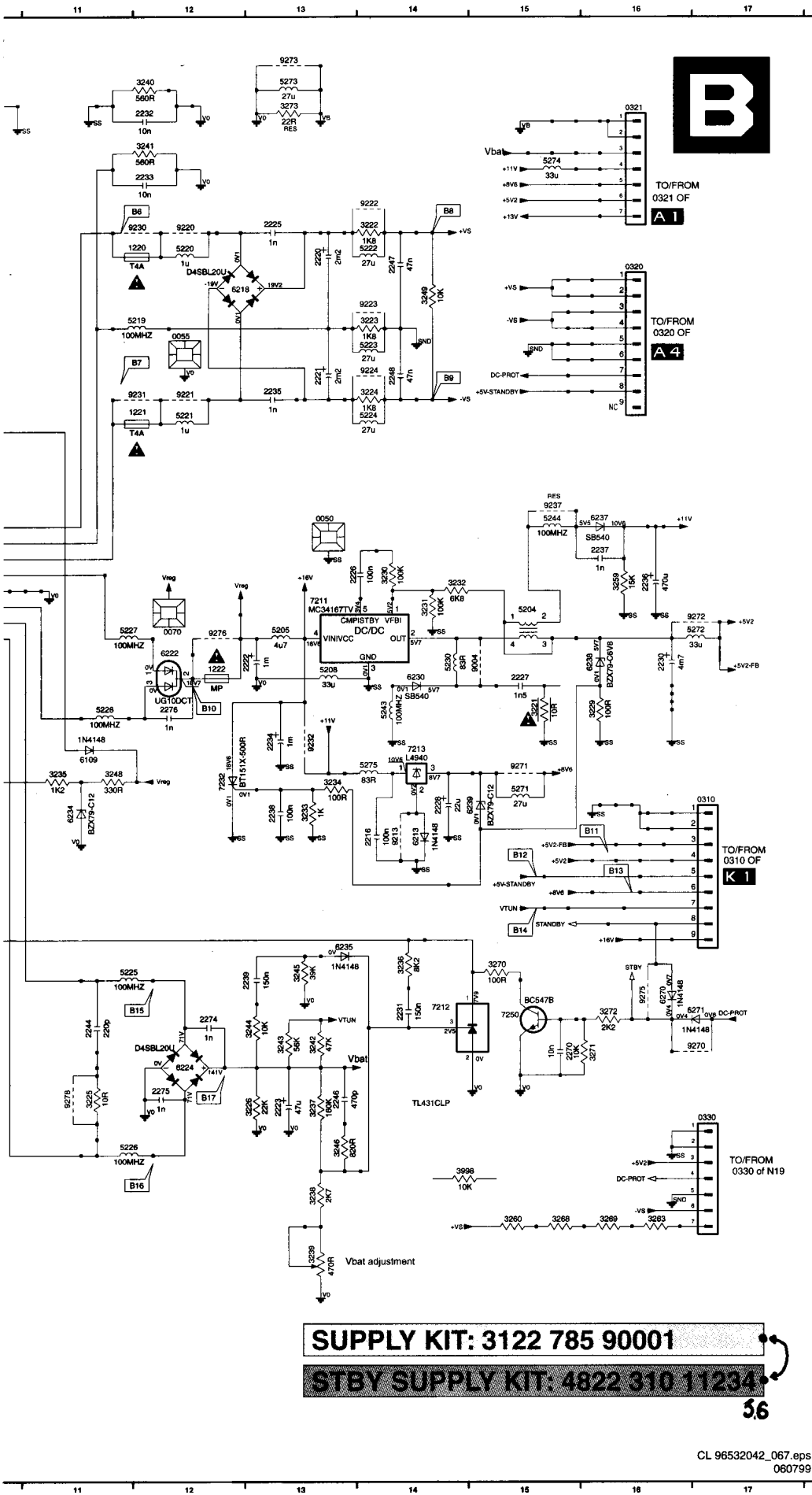
- 0042 D15
- 0043 D16
- 0044 D16
- 0320 H1
- 0328 B1
- 0335 A13
- 0336 C13
- 0337 E13
- 0338 D13
- 0339 H13
- 2701 E5
- 2702 I5
- 2704 F3
- 2705 F5
- 2711 D5
- 2712 G5
- 2714 C4
- 2715 D5
- 2730 J15
- 2732 K13
- 2733 K15
- 2738 B6
- 2739 C6
- 2740 A10
- 2741 C10
- 2742 C7
- 2743 C8
- 2744 A7
- 2745 B8
- 2746 B12
- 2747 B12
- 2748 C12
- 2749 C12
- 2750 D10
- 2751 F10
- 2752 F6
- 2753 F8
- 2754 D6
- 2755 D8
- 2756 E12
- 2757 E12
- 2758 F12
- 2759 F12
- 2760 G10
- 2761 I10
- 2762 H6
- 2763 I8
- 2764 G6
- 2765 H8
- 2766 H12
- 2767 H12
- 2768 I12
- 2769 I12
- 2770 H10
- 2771 L10
- 2774 J6
- 2775 J8
- 2776 K12
- 2777 K12
- 2778 L12
- 2779 L12
- 2780 K7
- 2790 J3
- 2791 K3
- 2792 J3
- 2793 K3
- 2794 J4
- 2795 K4
- 3700 I5
- 3701 I5
- 3703 E3
- 3704 F4
- 3705 F3
- 3707 F5
- 3710 G5
- 3711 G5
- 3714 C3
- 3715 C4
- 3716 D4
- 3717 D5
- 3720 B11
- 3721 B11
- 3722 E11
- 3723 E11
- 3724 H11
- 3725 H11
- 3726 K11
- 3727 K11
- 3728 K13
- 3729 K13
- 3730 J15
- 3731 J14
- 3732 J14
- 3733 J16
- 3734 K15
- 3735 K16
- 3740 C7
- 3741 C7
- 3742 A7
- 3743 B7
- 3744 B11
- 3745 C11
- 3746 A5
- 3747 C6
- 3750 F7
- 3751 F7
- 3752 D7
- 3753 E7
- 3754 E11
- 3755 F11
- 3760 I7
- 3761 I7
- 3762 G7
- 3763 G7
- 3764 G11

Top supply



| Diagram | 1 | NON SVGA 19W |
|---------|---|----------------|
| Item | 2 | NON SVGA 15W |
| | | Description |
| 2223 | X | 47µF |
| 2246 | X | 1nF |
| 2246 | X | 470pF |
| 3200 | X | 4.7Ω |
| 3200 | X | 56Ω |
| 3237 | X | 160k |
| 3242 | X | 47k |
| 3243 | X | 56k |
| 3246 | X | 6k8 |
| 3246 | X | 820Ω |
| 3260 | X | 1.5Ω |
| 3260 | X | 4.7Ω |
| 3263 | X | 2.2Ω |
| 3263 | X | 6.8Ω |
| 3268 | X | 1.5Ω |
| 3268 | X | 4.7Ω |
| 3269 | X | 1.5Ω |
| 3269 | X | 4.7Ω |
| 3998 | X | 10k |
| 5202 | X | 3122 268 32481 |
| 5202 | X | 8222 289 55771 |
| 6209 | X | BZX79-C18 |
| 6209 | X | BZX55-C16 |

MEASURD
in STANDBY



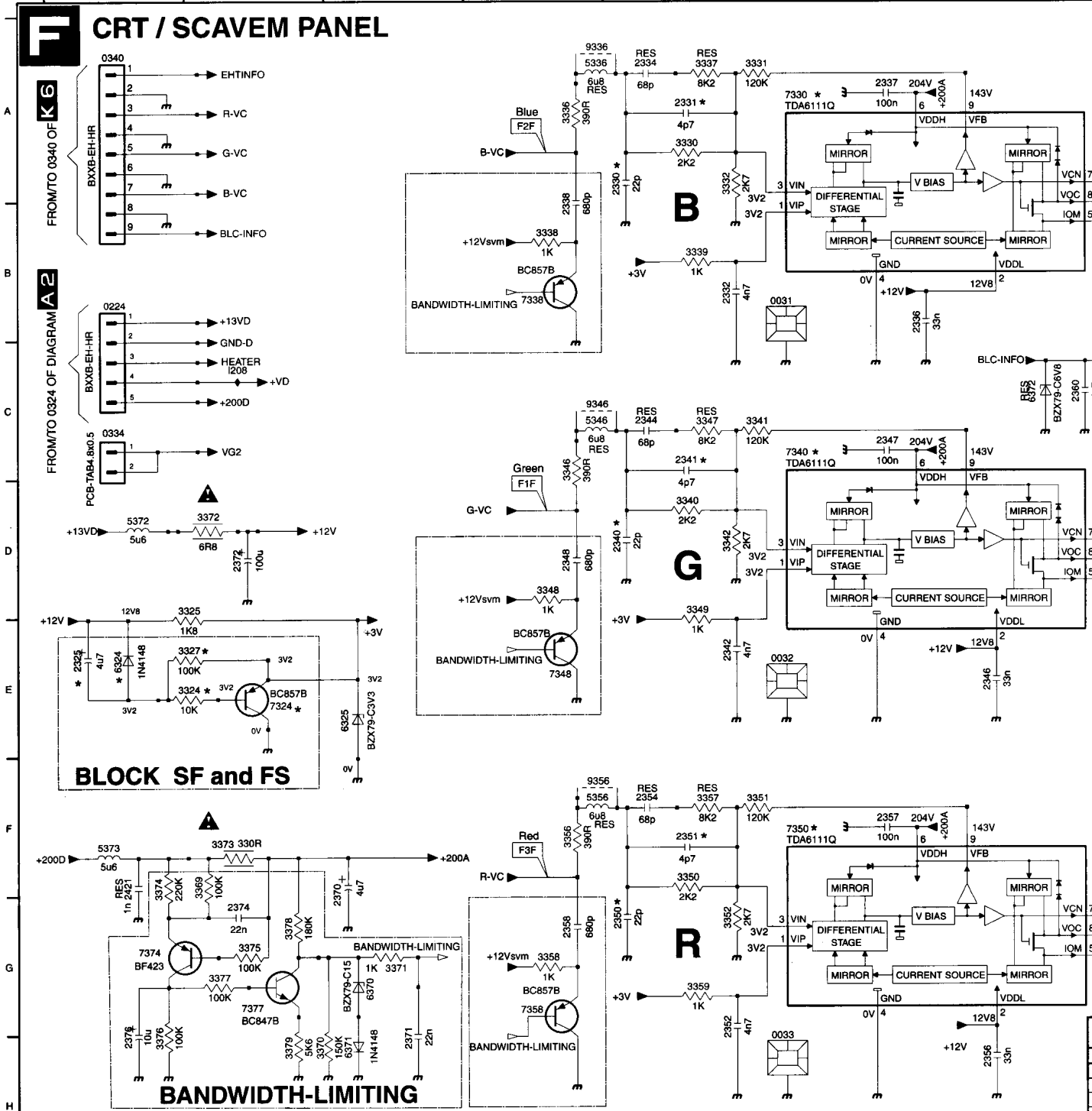
SUPPLY KIT: 3122 785 90001
STBY SUPPLY KIT: 4822 310 11234

36

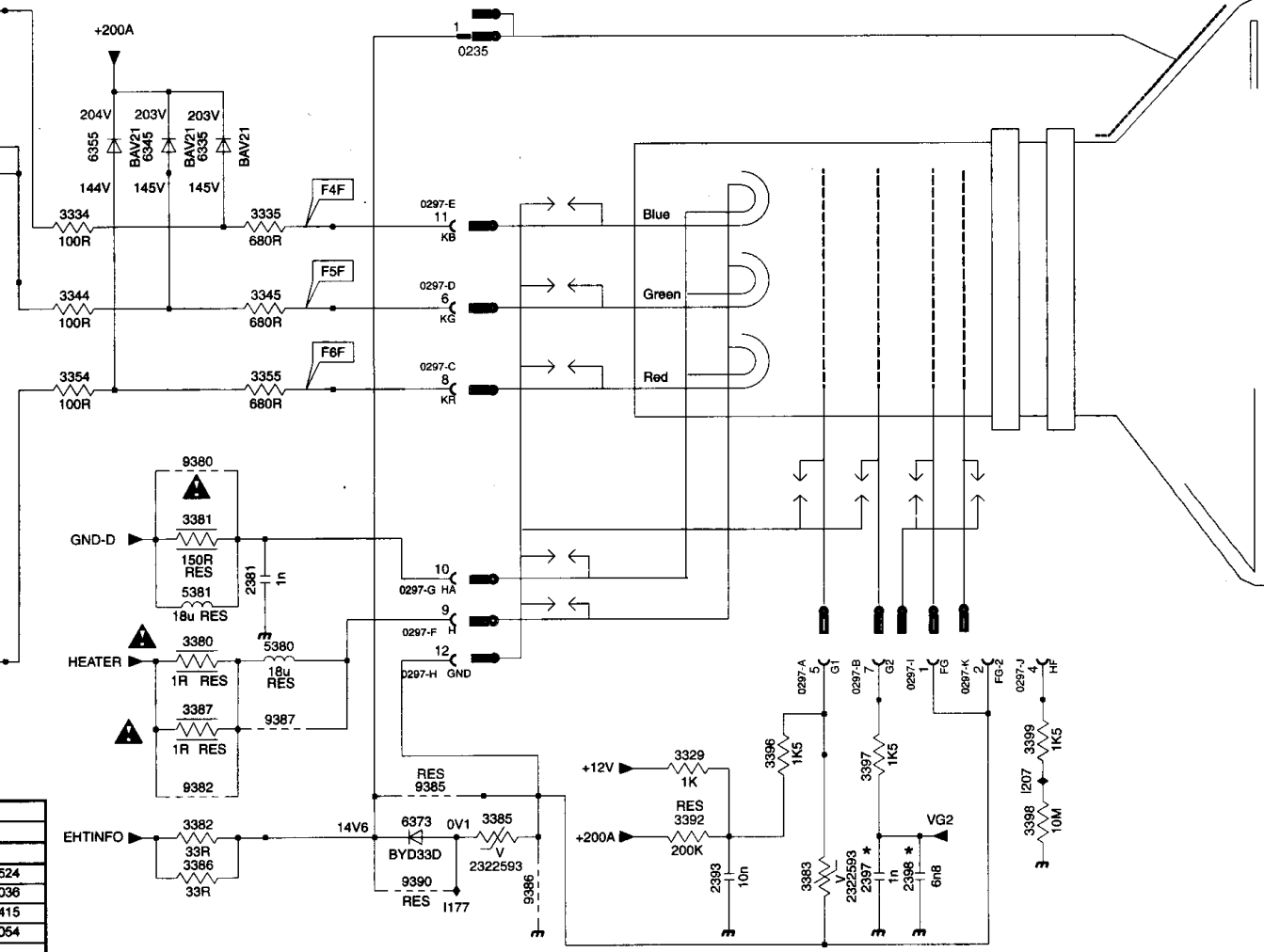
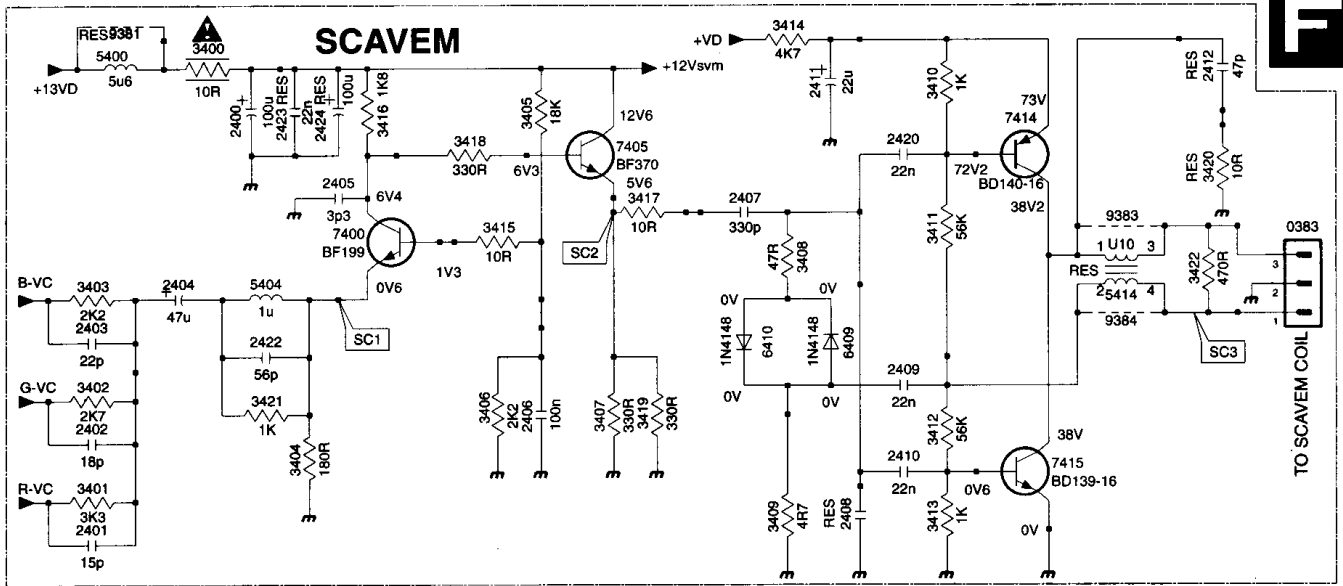
- U1 K15 3206 J2 6211 C9
- U2 K16 3207 J2 6212 L7
- 0050 E13 3208 J2 6213 H14
- 0055 C12 3209 K2 6214 M7
- 0060 M6 3210 K5 6215 C8
- 0065 C6 3211 K5 6216 L6
- 0070 F12 3214 H8 6217 L7
- 0102 A6 3215 I8 6218 C12
- 0302 C3 3216 F7 6219 K6
- 0304 A4 3217 J8 6220 K4
- 0310 G17 3218 J8 6221 L5
- 0320 C16 3219 K8 6222 F12
- 0321 A16 3221 G15 6224 J12
- 0330 J17 3222 B14 6230 F14
- 0331 G8 3223 C14 6234 H11
- 1001 B4 3224 D14 6235 I13
- 1002 D6 3225 J11 6237 E16
- 1003 A7 3226 J13 6238 F16
- 1004 C4 3227 M8 6239 H15
- 1005 C4 3228 C7 6270 I16
- 1007 B4 3229 G16 6271 I17
- 1220 C12 3230 E14 7000 E7
- 1221 D12 3231 F14 7001 E8
- 1222 F12 3232 F14 7100 F5
- 2000 C4 3233 H13 7101 F5
- 2003 C5 3234 G13 7102 E3
- 2004 B6 3235 G11 7103 G3
- 2005 B7 3236 I14 7104 G6
- 2006 D7 3237 J13 7200 G10
- 2007 E7 3238 K13 7201 K7
- 2009 F8 3239 K13 7202 K6
- 2100 E4 3240 A12 7203 I8
- 2101 E5 3241 B12 7204 K8
- 2102 G4 3242 J13 7205 J9
- 2104 G7 3243 J13 7206 J9
- 2105 F7 3244 J13 7207 H9
- 2106 E4 3245 I13 7211 F13
- 2107 G8 3246 K13 7212 I14
- 2110 B8 3247 K4 7213 G14
- 2200 B8 3248 G11 7230 K4
- 2201 C8 3249 C14 7231 L3
- 2202 H5 3250 K4 7232 G12
- 2203 C9 3251 L4 7250 I15
- 2204 J1 3252 M6 9000 D7
- 2205 J1 3253 L6 9002 C8
- 2206 J2 3254 K3 9003 B5
- 2207 K1 3255 K3 9004 F15
- 2208 L3 3256 K4 9006 A4
- 2209 C7 3257 L6 9007 B4
- 2210 L8 3258 J2 9008 C5
- 2211 L8 3259 E16 9009 A7
- 2212 K8 3260 K15 9010 A5
- 2213 I9 3261 L4 9017 B8
- 2214 A10 3262 L4 9018 B8
- 2215 L7 3263 K16 9018 B8
- 2216 H14 3264 K7 9020 B8
- 2217 K5 3265 K6 9213 H14
- 2218 H5 3266 K6 9215 C8
- 2219 K5 3267 K6 9220 B12
- 2220 C13 3268 K15 9221 D12
- 2221 D13 3269 H16 9222 B14
- 2222 F13 3270 I15 9223 C14
- 2223 J13 3271 J16 9224 D14
- 2224 H10 3272 I16 9230 B12
- 2225 B13 3273 A13 9231 D12
- 2226 E13 3274 L5 9232 G13
- 2227 F15 3998 K14 9237 E15
- 2228 H14 5000 B4 9270 J17
- 2230 F16 5006 B5 9271 G15
- 2231 H4 5101 E5 9272 F17
- 2232 A12 5102 G5 9273 A13
- 2233 B12 5103 G8 9275 I16
- 2234 G13 5104 G8 9278 F12
- 2235 D13 5201 I6 9278 J11
- 2236 F16 5202 E10 9279 L8
- 2237 E16 5203 E10
- 2238 H13 5204 F15
- 2239 H13 5205 F13
- 2240 I2 5206 B9
- 2241 L7 5207 B9
- 2242 L6 5208 F13
- 2244 J11 5209 E9
- 2245 J13 5210 E9
- 2247 C14 5212 J9
- 2248 D14 5213 H9
- 2250 L4 5214 L8
- 2251 K3 5219 C12
- 2252 L4 5220 C12
- 2253 M6 5221 D12
- 2260 I4 5222 C14
- 2261 I7 5223 C14
- 2262 K8 5224 D14
- 2263 I6 5225 I11
- 2264 J6 5226 K11
- 2270 J15 5227 F11
- 2271 I8 5228 G11
- 2272 K8 5230 F14
- 2274 I12 5240 F9
- 2275 J12 5241 I9
- 2276 G12 5242 K9
- 2277 K7 5243 G14
- 3001 C3 5244 E15
- 3002 C3 5271 G15
- 3003 E8 5272 F17
- 3004 B4 5273 A13
- 3005 B6 5274 B15
- 3006 A5 5275 G14
- 3007 E8 6004 B6
- 3008 E8 6005 B7
- 3009 F8 6006 C6
- 3101 E5 6007 C7
- 3102 E5 6008 B7
- 3103 E5 6009 D7
- 3104 G4 6101 D4
- 3106 G3 6103 G5
- 3107 G3 6104 G4
- 3108 F3 6105 F4
- 3109 G4 6106 F7
- 3110 D6 6107 F7
- 3111 G5 6108 F3
- 3113 G7 6109 G11
- 3114 G7 6200 I8
- 3115 G7 6201 K8
- 3116 G8 6202 I8
- 3117 E4 6203 K9
- 3118 F3 6204 J6
- 3119 D3 6205 J6
- 3200 C8 6206 C7
- 3202 I2 6207 H7
- 3203 I1 6208 J8
- 3204 J1 6209 K5
- 3205 J2 6210 D9

CRT / SCAVEM panel

| | | | | | | | | | | | | | | | | | | |
|----------|----------|----------|---------|---------|----------|----------|----------|----------|----------|----------|----------|---------|----------|----------|----------|----------|----------|----------|
| 0031 B6 | 0297 F11 | 0383 A15 | 2338 B4 | 2350 G5 | 2370 F3 | 2400 A10 | 2409 B13 | 3324 E2 | 3335 D10 | 3344 E9 | 3353 G8 | 3363 C9 | 3376 H1 | 3386 H10 | 3402 B9 | 3411 A14 | 3420 A15 | 5380 G10 |
| 0032 E6 | 0297 G11 | 2325 E1 | 2340 D5 | 2351 F5 | 2371 H3 | 2401 C9 | 2410 B13 | 3325 D2 | 3336 A4 | 3345 E10 | 3354 E9 | 3364 E9 | 3377 G2 | 3387 G10 | 3403 B9 | 3412 B14 | 3421 B10 | 5381 F10 |
| 0033 H6 | 0297 G13 | 2330 A5 | 2341 C5 | 2352 G5 | 2372 D2 | 2402 B9 | 2411 A13 | 3327 E2 | 3337 A5 | 3346 C4 | 3355 E10 | 3369 F2 | 3378 G2 | 3392 H13 | 3404 B10 | 3413 C14 | 3422 B15 | 5400 A9 |
| 0224 B1 | 0297 G13 | 2331 A5 | 2342 E5 | 2353 G9 | 2374 G2 | 2403 B9 | 2412 A15 | 3329 G13 | 3338 B4 | 3347 C5 | 3356 F4 | 3370 H2 | 3379 H2 | 3396 G13 | 3405 A12 | 3414 A13 | 3999 H1 | 5404 B10 |
| 0235 C11 | 0297 G14 | 2332 B5 | 2343 D9 | 2354 F5 | 2376 H1 | 2404 B10 | 2420 A13 | 3330 A5 | 3339 B5 | 3348 D4 | 3357 F5 | 3371 G3 | 3380 G10 | 3397 G14 | 3406 B11 | 3415 A11 | 5336 A4 | 5414 B14 |
| 0297 D11 | 0297 G14 | 2333 A9 | 2344 C5 | 2356 H7 | 2381 F10 | 2405 A11 | 2421 F1 | 3331 A6 | 3340 D5 | 3349 D5 | 3358 G4 | 3372 D2 | 3381 F10 | 3398 G14 | 3407 B12 | 3416 A11 | 5346 C4 | 6324 E1 |
| 0297 E11 | 0297 G15 | 2334 A5 | 2346 E7 | 2357 F7 | 2393 H13 | 2406 B12 | 2422 B10 | 3332 A5 | 3341 C6 | 3350 F5 | 3359 G5 | 3373 F2 | 3382 H10 | 3399 G15 | 3408 A13 | 3417 A12 | 5356 F4 | 6325 E3 |
| 0297 E11 | 0334 C1 | 2336 B7 | 2347 C7 | 2358 G4 | 2397 H14 | 2407 A13 | 2423 A10 | 3333 A8 | 3342 D5 | 3351 F6 | 3360 C8 | 3374 F1 | 3383 H13 | 3400 A10 | 3409 C13 | 3418 A11 | 5372 D1 | 6335 D10 |
| 0297 F11 | 0340 A1 | 2337 A7 | 2348 D4 | 2360 C8 | 2398 H14 | 2408 C13 | 2424 A11 | 3334 D9 | 3343 D8 | 3352 G5 | 3361 C8 | 3375 G2 | 3385 H12 | 3401 C9 | 3410 A14 | 3419 B12 | 5373 F1 | 6345 D10 |

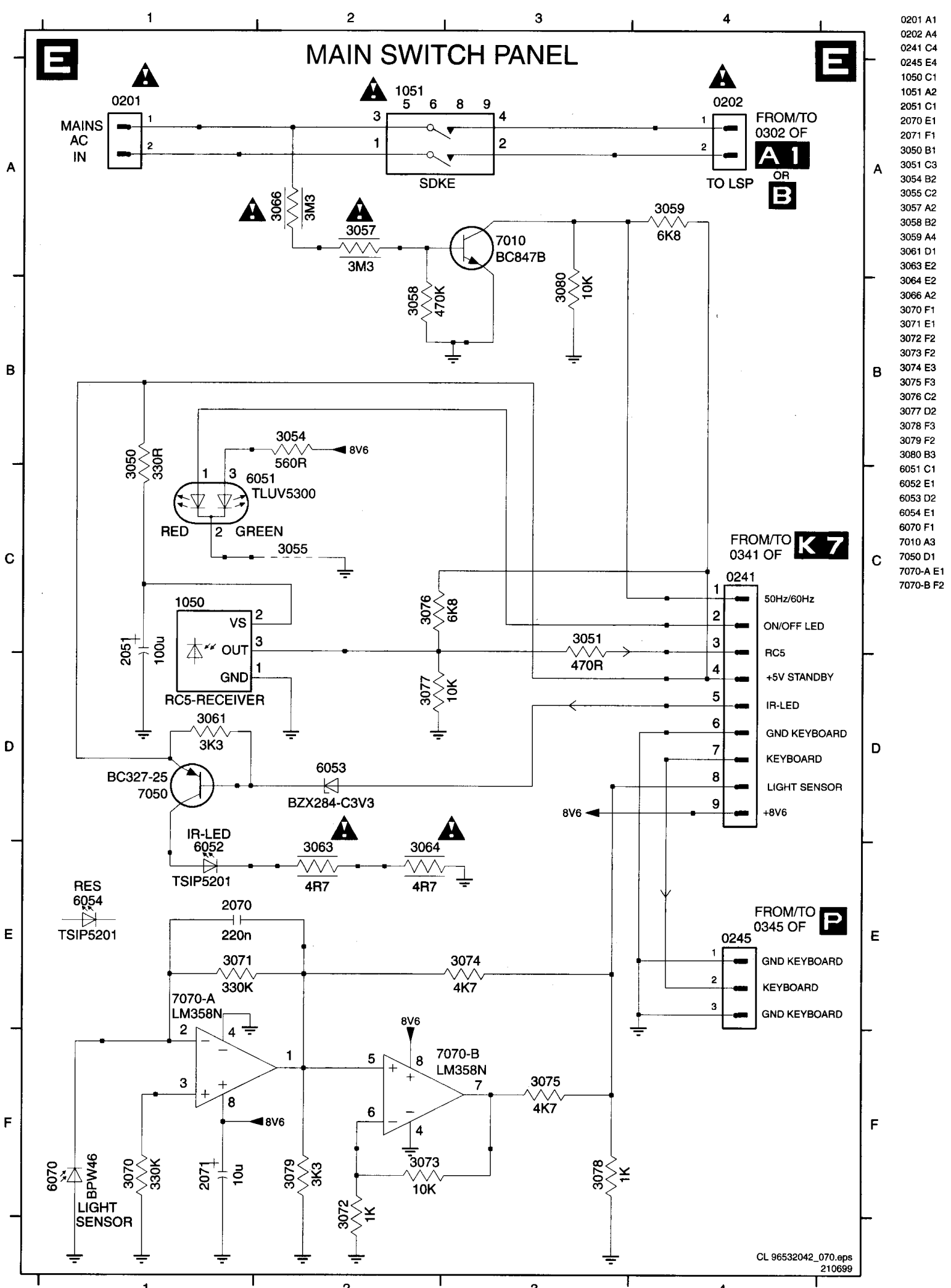


| | | | |
|----------|----------|----------|----------|
| 6355 D9 | 7338 B4 | 7414 A14 | 9384 B14 |
| 6370 G3 | 7340 C6 | 7415 B14 | 9385 G11 |
| 6371 H3 | 7348 E4 | 9336 A4 | 9386 H12 |
| 6372 C8 | 7350 F6 | 9346 C4 | 9387 G10 |
| 6373 H11 | 7358 G4 | 9356 F4 | 9390 H11 |
| 6409 B13 | 7374 G1 | 9380 F10 | |
| 6410 B13 | 7377 G2 | 9381 A10 | |
| 7324 E2 | 7400 A11 | 9382 G10 | |
| 7330 A6 | 7405 A12 | 9383 A14 | |



| Diagram | 1 | 2 | Description |
|---------|---|---|----------------|
| F | 1 | | Fake DAF |
| F | 2 | | Non DAF |
| sm | 1 | 2 | Description |
| 297 | | | 4822 265 11524 |
| 298 | | | 2422 500 80036 |
| 298 | X | | 4822 255 10415 |
| 299 | X | | 2422 500 80054 |
| 397 | | | 1.5nF |
| 397 | X | | 1.5nF |
| 398 | | | 4.7nF |
| 398 | X | | 4.7nF |
| 398 | | | 10M |
| 399 | | | 1k5 |
| 389 | | | Wire |

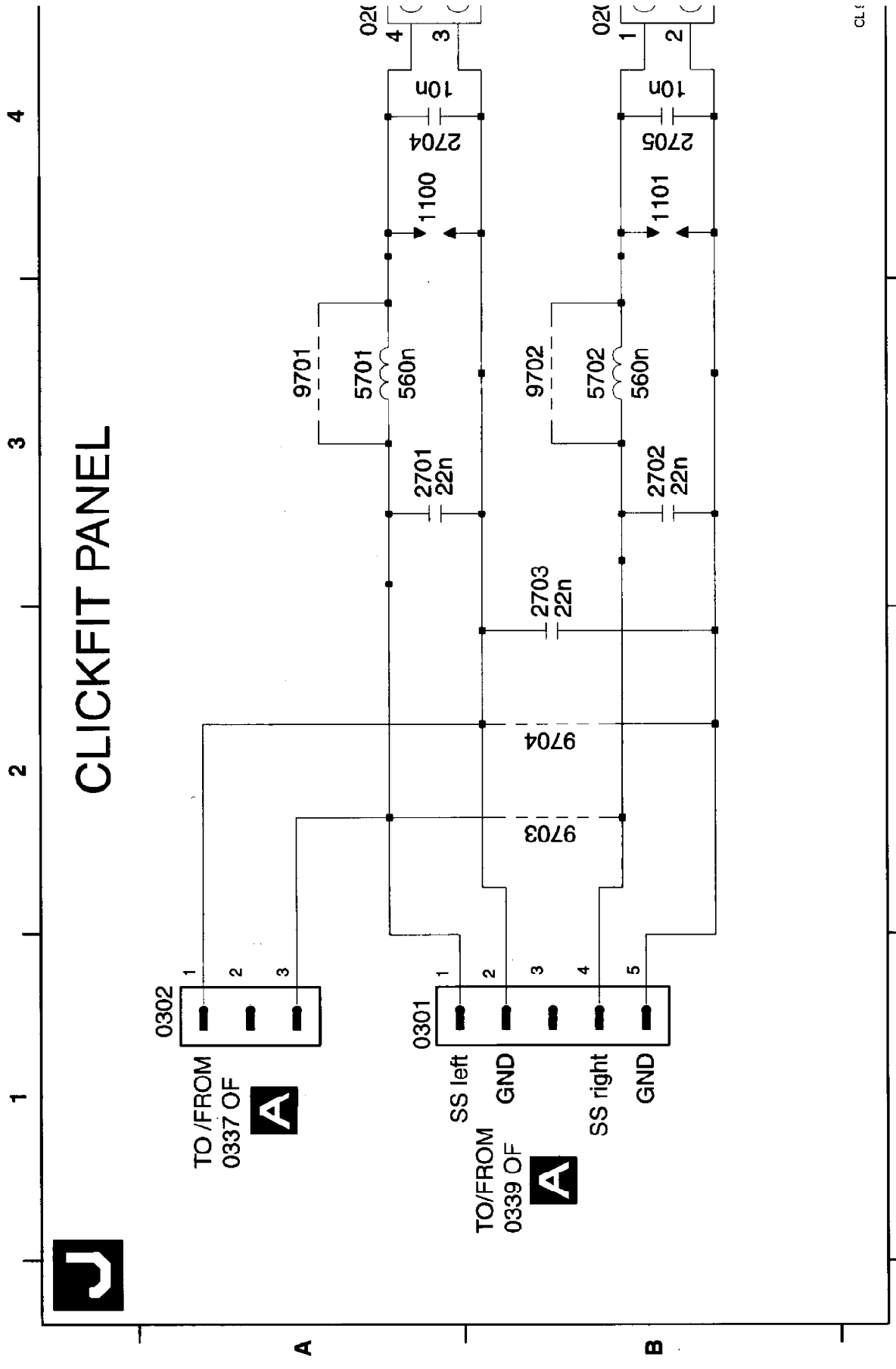
Mainswitch panel

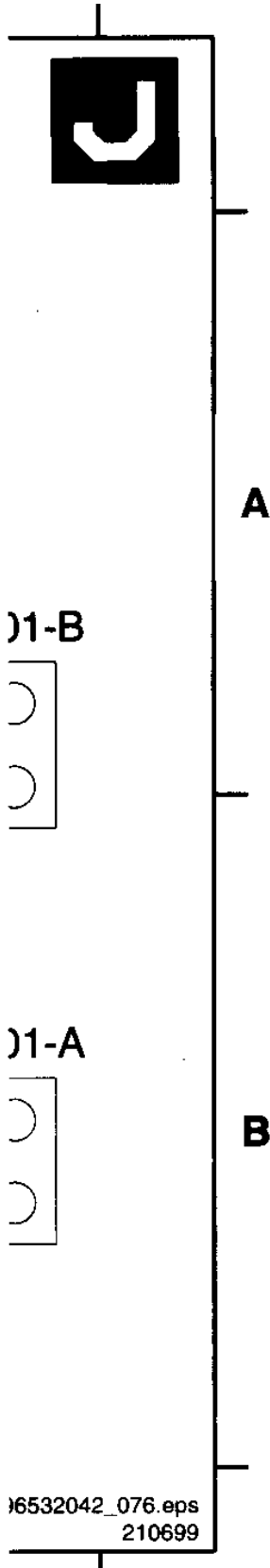


- 0201 A1
- 0202 A4
- 0241 C4
- 0245 E4
- 1050 C1
- 1051 A2
- 2051 C1
- 2070 E1
- 2071 F1
- 3050 B1
- 3051 C3
- 3054 B2
- 3055 C2
- 3057 A2
- 3058 B2
- 3059 A4
- 3061 D1
- 3063 E2
- 3064 E2
- 3066 A2
- 3070 F1
- 3071 E1
- 3072 F2
- 3073 F2
- 3074 E3
- 3075 F3
- 3076 C2
- 3077 D2
- 3078 F3
- 3079 F2
- 3080 B3
- 6051 C1
- 6052 E1
- 6053 D2
- 6054 E1
- 6070 F1
- 7010 A3
- 7050 D1
- 7070-A E1
- 7070-B F2

Clickfit panel

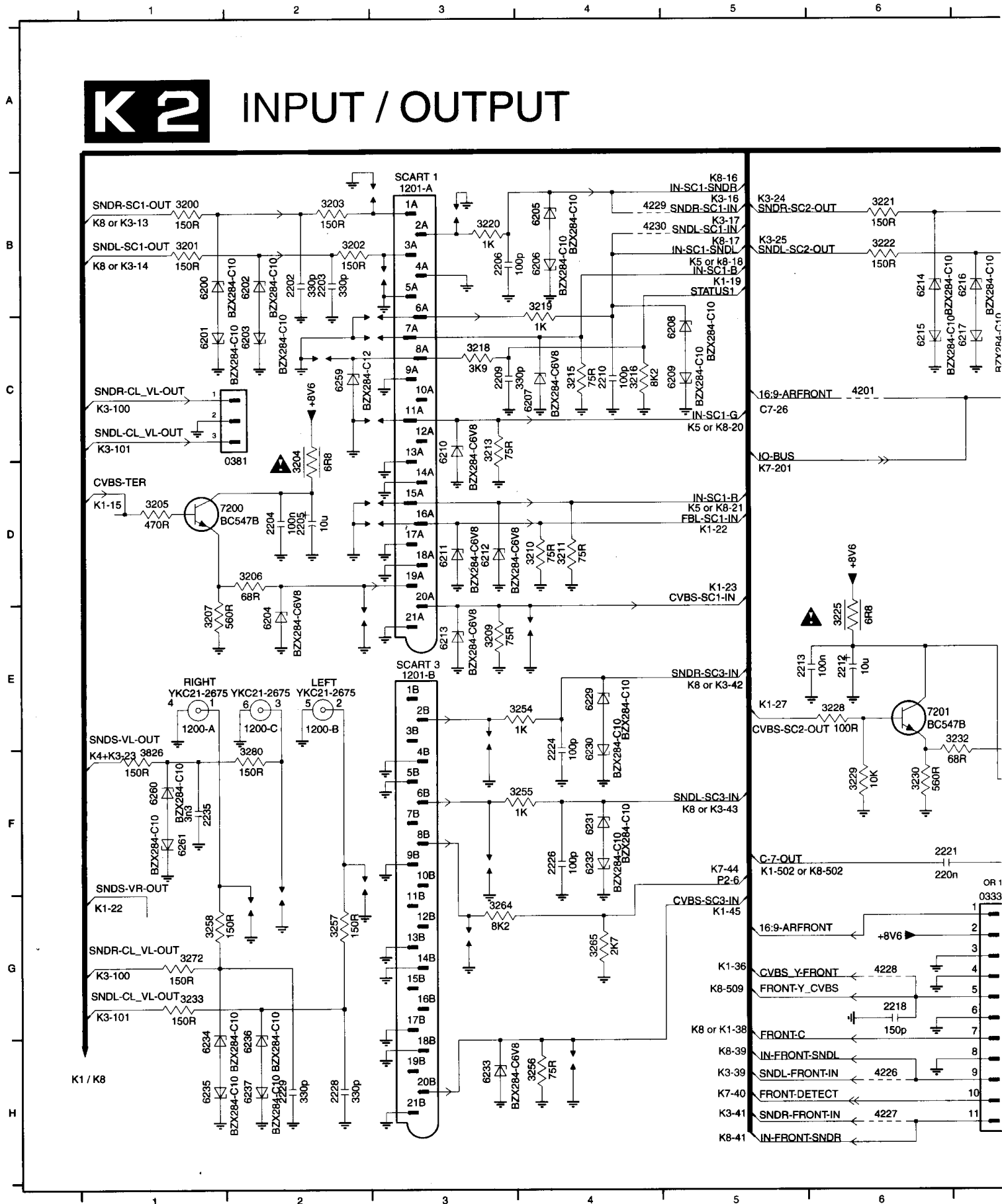
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|-----------|---------|---------|---------|---------|---------|
| 0201-A B4 | 0302 A1 | 2701 A3 | 2704 A4 | 5701 A3 | 9702 B3 |
| 0201-B A4 | 1100 A4 | 2702 B3 | 2705 B4 | 5702 B3 | 9703 B2 |
| 0301 A1 | 1101 B4 | 2703 B3 | 3998 B3 | 9701 A3 | 9704 B2 |





Small signal panel

| | | | | | | | | | | | | | |
|------------|------------|----------|----------|----------|----------|----------|----------|----------|---------|----------|----------|---------|----------|
| 0333 G7 | 1202-B E10 | 2212 E6 | 2222 F9 | 3200 B1 | 3209 E3 | 3220 B3 | 3230 F6 | 3243 G8 | 3253 F8 | 3270 E11 | 4227 H6 | 6204 E2 | 6213 E3 |
| 0376 H8 | 1216 H9 | 2213 E5 | 2224 F4 | 3201 B1 | 3210 D4 | 3221 B6 | 3231 H12 | 3244 B11 | 3254 E4 | 3271 F11 | 4228 G6 | 6205 B4 | 6214 B6 |
| 0381 C1 | 2202 B2 | 2215 B7 | 2226 F4 | 3202 B2 | 3211 D4 | 3222 B6 | 3232 E7 | 3245 C10 | 3255 F4 | 3272 G1 | 4229 B4 | 6206 B4 | 6215 C6 |
| 1200-A E1 | 2203 B2 | 2216 B7 | 2228 H2 | 3203 B2 | 3212 E12 | 3223 B7 | 3233 G1 | 3246 B11 | 3256 H4 | 3273 G11 | 4230 B4 | 6207 C4 | 6216 B7 |
| 1200-B E2 | 2204 D2 | 2217 B11 | 2229 H2 | 3204 D2 | 3213 C3 | 3224 B7 | 3235 D11 | 3247 F8 | 3257 G2 | 3274 G11 | 4235 D11 | 6208 C5 | 6217 C7 |
| 1200-C E2 | 2205 D2 | 2218 G6 | 2235 F1 | 3205 D1 | 3215 C4 | 3225 E6 | 3236 D11 | 3248 G8 | 3258 I1 | 3280 F2 | 6200 B1 | 6209 C5 | 6218 C7 |
| 1201-A B3 | 2206 B3 | 2219 C11 | 2240 E11 | 3206 D2 | 3216 C4 | 3227 G12 | 3240 C11 | 3249 G8 | 3264 G3 | 3826 F1 | 6201 C1 | 6210 C3 | 6219 E7 |
| 1201-B E3 | 2209 C3 | 2220 C11 | 2241 F11 | 3207 E1 | 3218 C3 | 3228 E6 | 3241 C11 | 3250 F7 | 3265 G4 | 4201 C6 | 6202 B2 | 6211 D3 | 6220 B11 |
| 1202-A B10 | 2210 C4 | 2221 F6 | 3147 H8 | 3208 E11 | 3219 B4 | 3229 F6 | 3242 C12 | 3252 F8 | 3266 F8 | 4226 H6 | 6203 C2 | 6212 D3 | 6221 B11 |

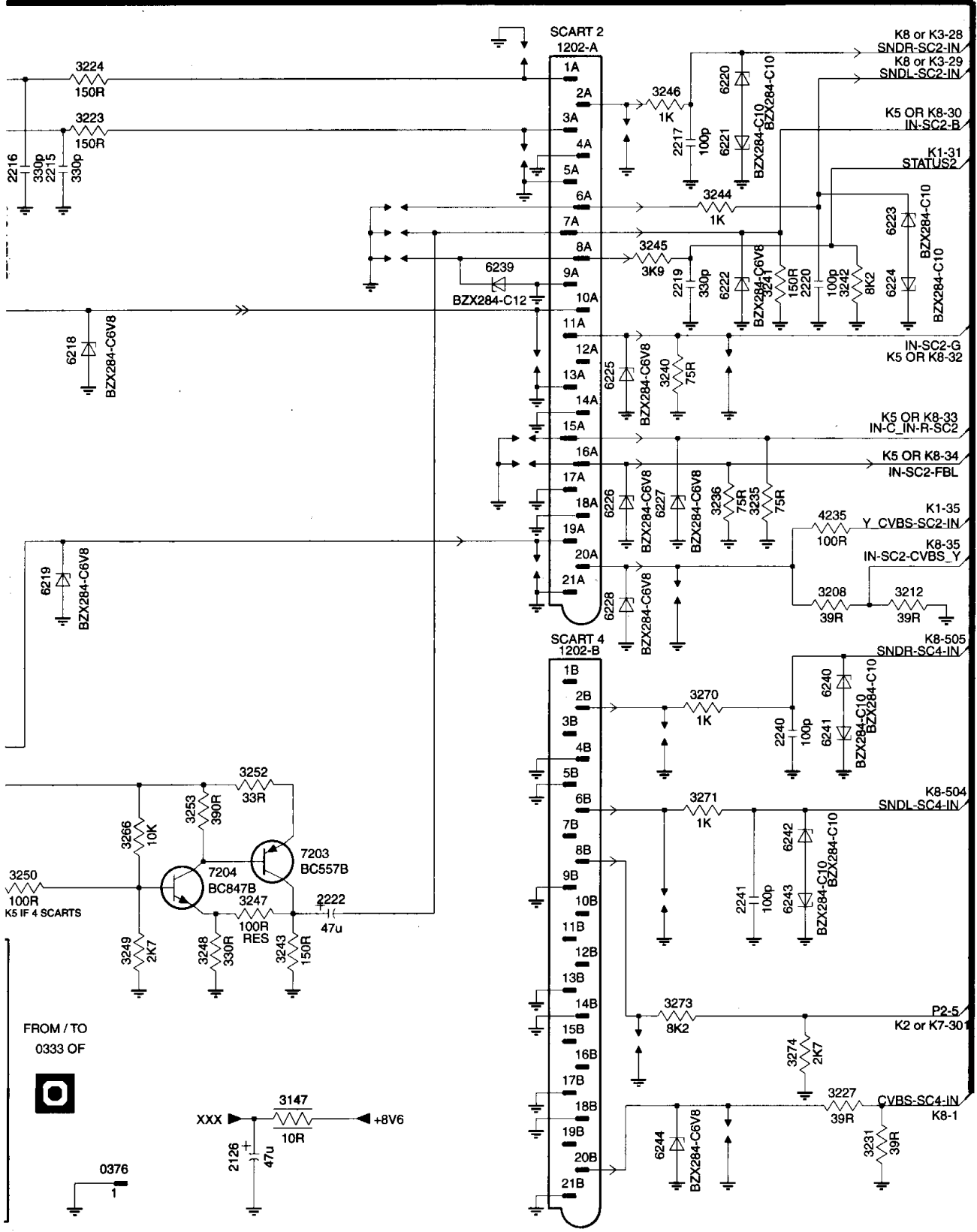


| | | | |
|----------|----------|----------|---------|
| 6222 C11 | 6231 F4 | 6241 E11 | 7203 F8 |
| 6223 C12 | 6232 F4 | 6242 F11 | 7204 F8 |
| 6224 C12 | 6233 H3 | 6243 F11 | |
| 6225 C10 | 6234 H1 | 6244 H11 | |
| 6226 D10 | 6235 H1 | 6259 C2 | |
| 6227 D11 | 6236 H2 | 6260 F1 | |
| 6228 E10 | 6237 H2 | 6261 F1 | |
| 6229 E4 | 6239 C10 | 7200 D1 | |
| 6230 F4 | 6240 E11 | 7201 E6 | |

7 8 9 10 11 12

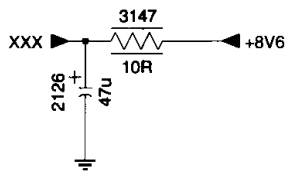
K2

A
B
C
D



| Diagram | 1 | 3 x scart | |
|---------|---|-----------|----------------|
| K2 | 2 | 4 x scart | |
| Item | 1 | 2 | Description |
| 1201 | 2 | 3 | 4822 267 60385 |
| 1201 | 2 | 3 | 4822 267 10771 |
| 1202 | 2 | 3 | 4822 267 60385 |
| 1202 | 2 | 3 | 4822 267 10771 |
| 2224 | 2 | 3 | 100pF |
| 2226 | 2 | 3 | 100pF |
| 2240 | 3 | | 100pF |
| 2241 | 3 | | 100pF |
| 3227 | 3 | | 39Ω |
| 3231 | 3 | | 39Ω |
| 3254 | 2 | 3 | 1k |
| 3255 | 2 | 3 | 1k |
| 3256 | 2 | 3 | 75Ω |
| 3264 | 2 | 3 | 8k2 |
| 3265 | 2 | 3 | 2k7 |
| 3270 | 3 | | 1k |
| 3271 | 3 | | 1k |
| 3273 | 3 | | 8k2 |
| 3274 | 3 | | 2k7 |
| 6229 | 2 | 3 | PDZ10B |
| 6230 | 2 | 3 | PDZ10B |
| 6231 | 2 | 3 | PDZ10B |
| 6232 | 2 | 3 | BZX284-C10 |
| 6233 | 2 | 3 | PDZ6.8B |
| 6240 | 3 | | PDZ10B |
| 6241 | 3 | | PDZ10B |
| 6242 | 3 | | PDZ10B |
| 6243 | 3 | | PDZ10B |
| 6244 | 3 | | PDZ6.8B |

FROM / TO
0333 OF

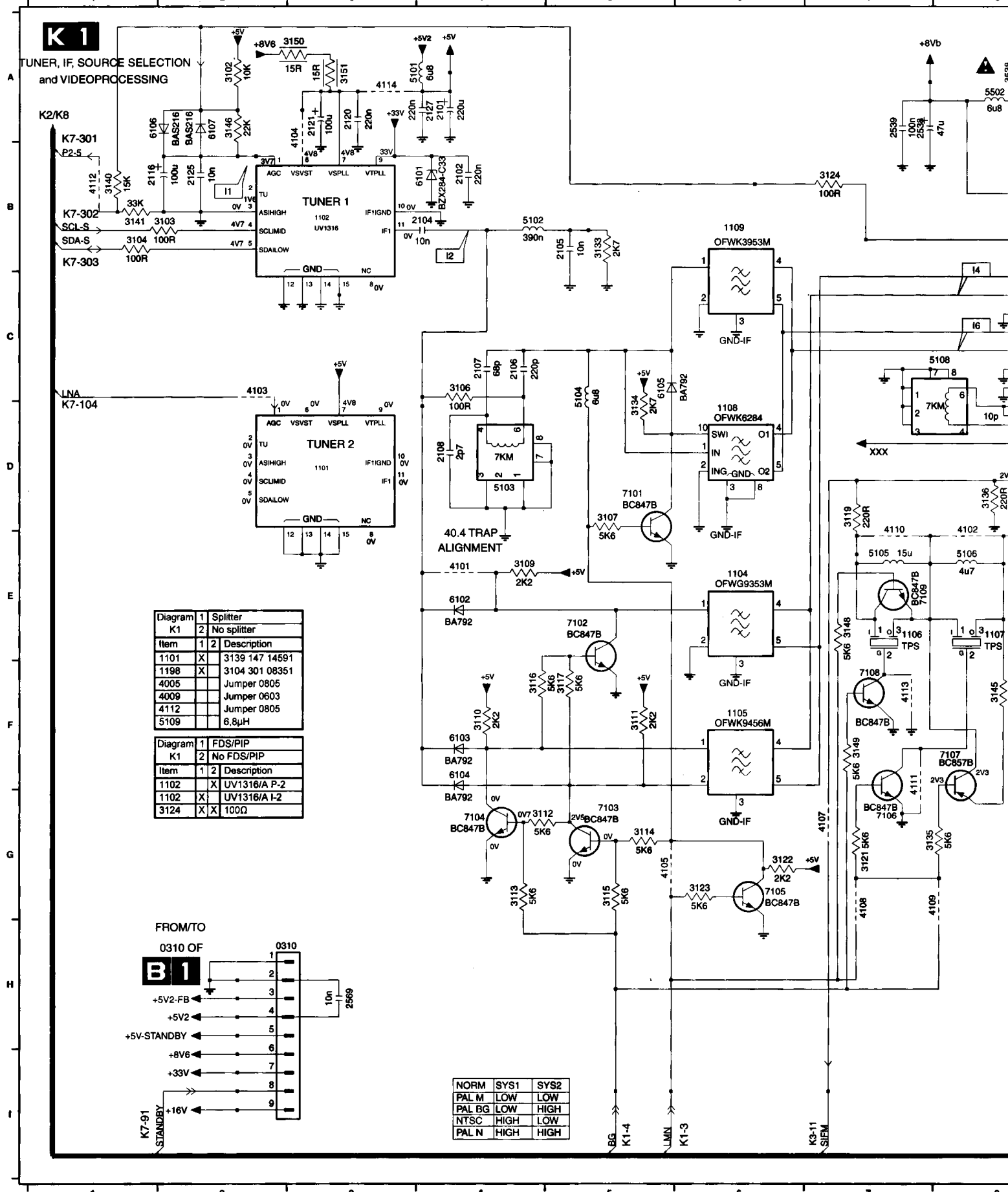


7 8 9 10 11 12

H

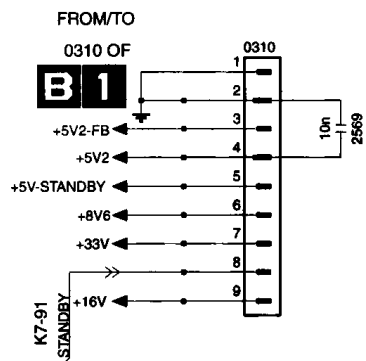
Small signal panel

| | | | | | | | | | | | | | | | | | |
|---------|----------|---------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|----------|----------|---------|
| 0310 H2 | 1108 D6 | 2102 B4 | 2110 C8 | 2120 A3 | 2504 F10 | 2521 E13 | 2534 B13 | 2541 A8 | 2555 G11 | 2562 I13 | 3102 A2 | 3111 F5 | 3118 C9 | 3134 D5 | 3141 B1 | 3150 A3 | 3545 F6 |
| 1101 D3 | 1109 B6 | 2104 B4 | 2111 C8 | 2121 A3 | 2505 F10 | 2522 E14 | 2535 B10 | 2545 E9 | 2556 H11 | 2563 I13 | 3103 B2 | 3112 G4 | 3119 D7 | 3135 F7 | 3142 B10 | 3151 A3 | 3546 G1 |
| 1102 B3 | 1525 E14 | 2105 B5 | 2112 A10 | 2125 B2 | 2506 F10 | 2525 E14 | 2536 B10 | 2550 G11 | 2557 G11 | 2564 I13 | 3104 B1 | 3113 G4 | 3121 G7 | 3136 D8 | 3143 A10 | 3521 E13 | 3551 G1 |
| 1104 E6 | 1526 E14 | 2106 C4 | 2116 B1 | 2127 A4 | 2510 C13 | 2526 E14 | 2537 B10 | 2551 H15 | 2558 I12 | 2565 F11 | 3106 C4 | 3114 G5 | 3122 G6 | 3137 D9 | 3145 F8 | 3530 B11 | 3552 G1 |
| 1105 F6 | 1527 E15 | 2107 C4 | 2117 D9 | 2501 F9 | 2511 C13 | 2527 E15 | 2538 A7 | 2552 H15 | 2559 I12 | 2566 F9 | 3107 D5 | 3115 G5 | 3123 G6 | 3138 D8 | 3146 A2 | 3531 B11 | 3553 G1 |
| 1106 E7 | 1528 E15 | 2108 D4 | 2118 D8 | 2502 F10 | 2512 C13 | 2528 E15 | 2539 A7 | 2553 F15 | 2560 I11 | 2567 G11 | 3109 E4 | 3116 F4 | 3124 B7 | 3139 E8 | 3148 E7 | 3532 B13 | 3554 F1 |
| 1107 E8 | 2101 A4 | 2109 C8 | 2119 A9 | 2503 F10 | 2520 E13 | 2532 B13 | 2540 B8 | 2554 F11 | 2561 I11 | 2569 H3 | 3110 F4 | 3117 F5 | 3133 B5 | 3140 B1 | 3149 F7 | 3538 A8 | 3556 H1 |



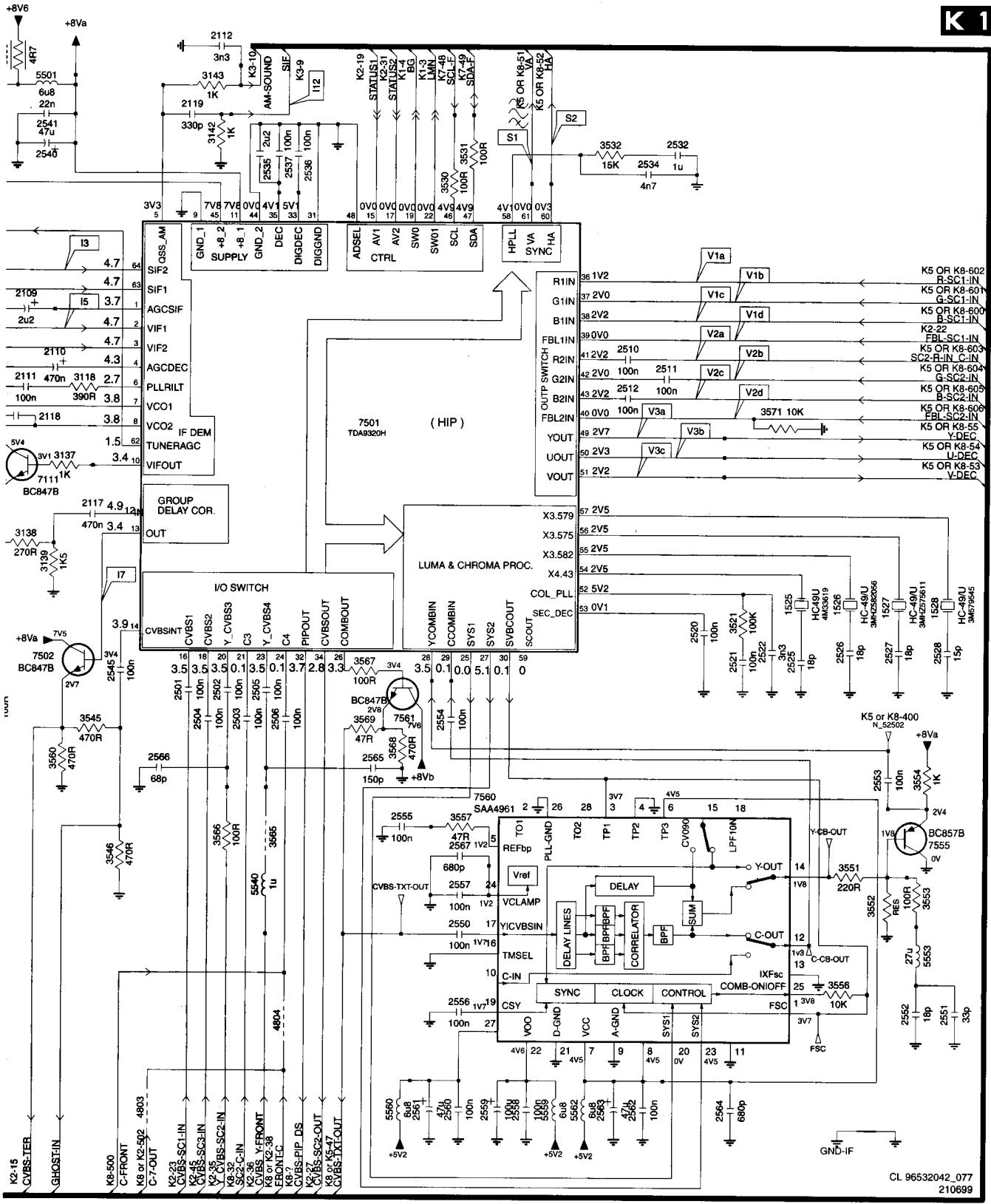
| | | | |
|---------|---|-------------|----------------|
| Diagram | 1 | Splitter | |
| K1 | 2 | No splitter | |
| Item | 1 | 2 | Description |
| 1101 | X | | 3139 147 14591 |
| 1198 | X | | 3104 301 08351 |
| 4005 | | | Jumper 0805 |
| 4009 | | | Jumper 0603 |
| 4112 | | | Jumper 0805 |
| 5109 | | | 6.8μH |

| | | | |
|---------|---|------------|--------------|
| Diagram | 1 | FDS/PIP | |
| K1 | 2 | No FDS/PIP | |
| Item | 1 | 2 | Description |
| 1102 | X | | UV1316/A P-2 |
| 1102 | X | | UV1316/A I-2 |
| 3124 | X | X | 100Ω |



| | | |
|--------|------|------|
| NORM | SYS1 | SYS2 |
| PAL M | LOW | LOW |
| PAL BG | LOW | HIGH |
| NTSC | HIGH | LOW |
| PAL N | HIGH | HIGH |

| | | | | | | | | |
|----------|----------|---------|----------|----------|----------|---------|----------|----------|
| 3557 G11 | 3571 D14 | 4107 G7 | 4114 A3 | 5105 E7 | 5559 I12 | 6105 C5 | 7105 G6 | 7502 E8 |
| 3560 F8 | 3999 A6 | 4108 G7 | 4803 I9 | 5106 E8 | 5560 I11 | 6106 A1 | 7106 G7 | 7555 G15 |
| 3565 G10 | 4101 E4 | 4109 G8 | 4804 H10 | 5108 C7 | 5562 I12 | 6107 A2 | 7107 F8 | 7560 F12 |
| 3566 G10 | 4102 E8 | 4110 E7 | 5101 A4 | 5501 A8 | 6101 B4 | 7101 D5 | 7108 F7 | 7561 F11 |
| 3567 E11 | 4103 C2 | 4111 F7 | 5102 B4 | 5502 A8 | 6102 E4 | 7102 E5 | 7109 E7 | |
| 3568 F11 | 4104 A3 | 4112 B1 | 5103 D4 | 5540 G10 | 6103 F4 | 7103 G5 | 7111 D9 | |
| 3569 F11 | 4105 G5 | 4113 F7 | 5104 C5 | 5553 H15 | 6104 F4 | 7104 G4 | 7501 D11 | |



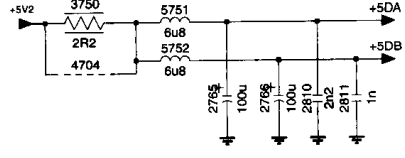
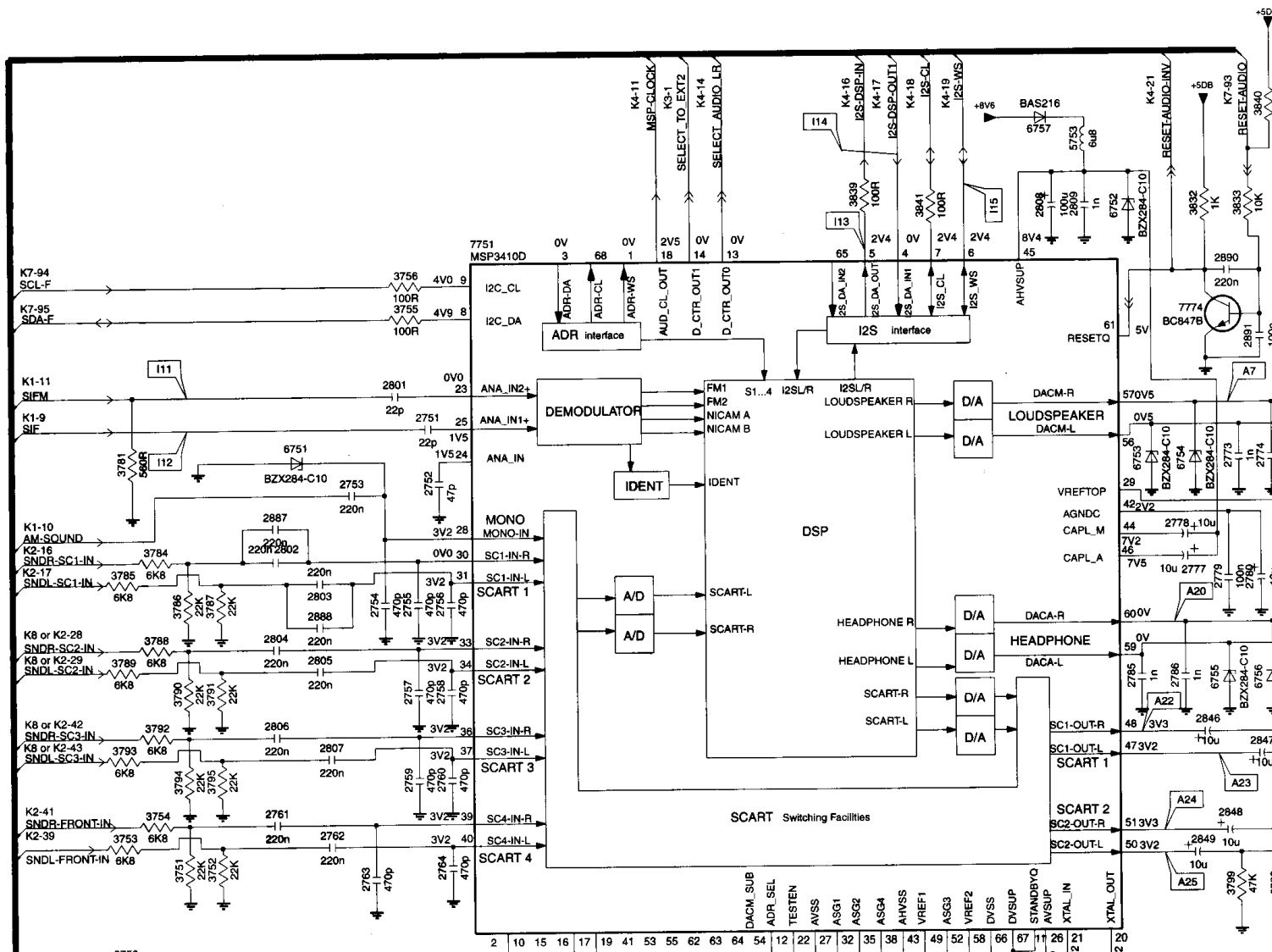
K1

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Small signal panel

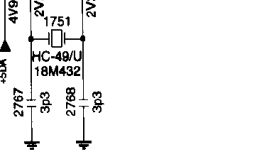
K3

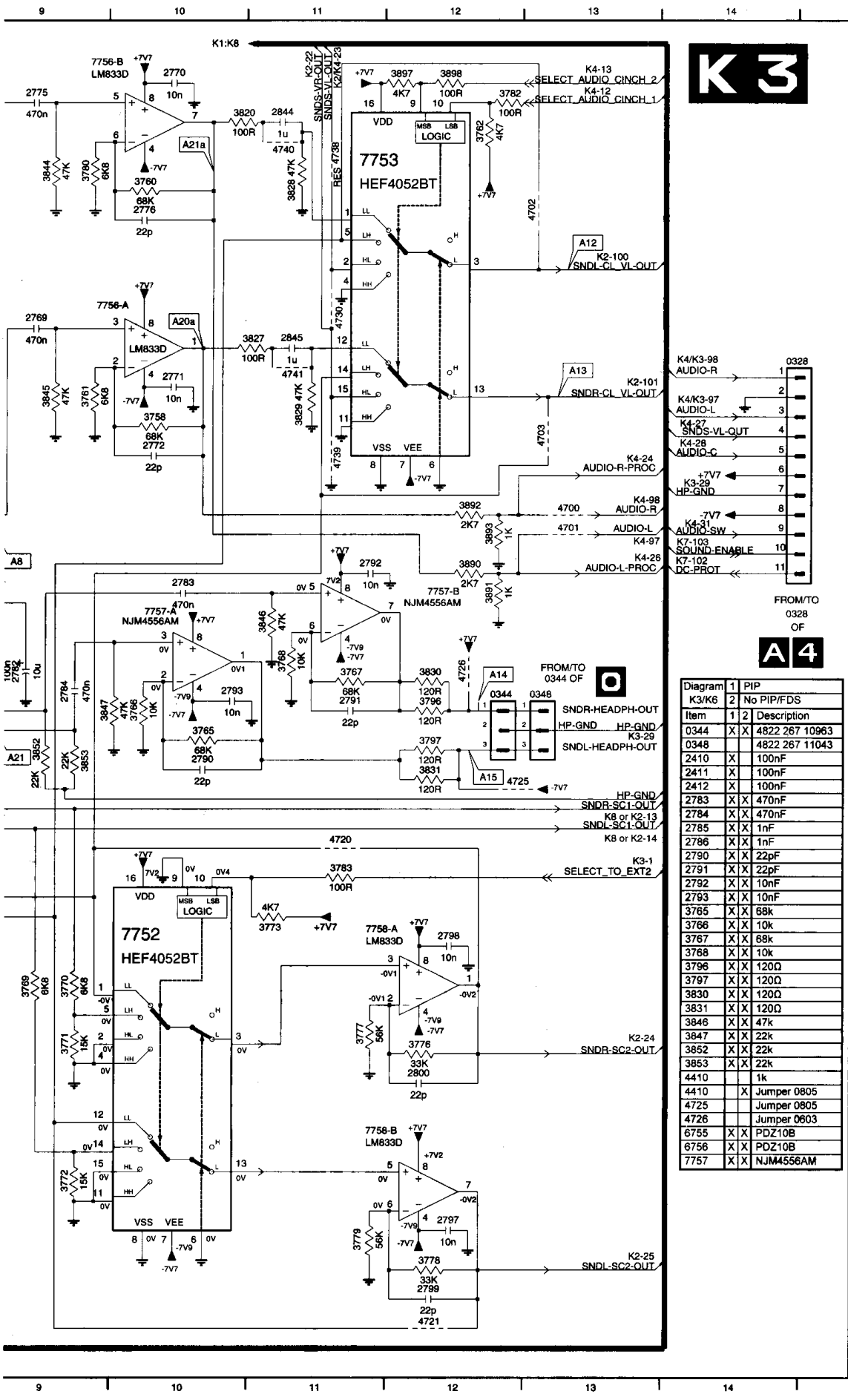
SOUND PROCESSING



| Diagram | 1 | 2 | Audio matrix |
|---------|---|---|-----------------|
| K3 | 1 | 2 | No audio matrix |
| Item | 1 | 2 | Description |
| 2802 | X | X | 220nF |
| 2803 | X | X | 220nF |
| 2804 | X | X | 220nF |
| 2805 | X | X | 220nF |
| 2806 | X | X | 220nF |
| 2807 | X | X | 220nF |
| 2887 | X | X | 220nF |
| 2888 | X | X | 220nF |
| 3753 | X | X | 5K6 |
| 3753 | X | X | 6K8 |
| 3754 | X | X | 5K6 |
| 3754 | X | X | 6K8 |
| 3784 | X | X | 6K8 |
| 3784 | X | X | Jumper 0603 |
| 3785 | X | X | 6K8 |
| 3785 | X | X | Jumper 0603 |

| Diagram | 1 | Audio matrix |
|---------|---|-----------------|
| K3 | 2 | No audio matrix |
| 3786 | X | 22K |
| 3787 | X | 22K |
| 3788 | X | 6K8 |
| 3789 | X | 6K8 |
| 3790 | X | 22K |
| 3791 | X | 22K |
| 3792 | X | 6K8 |
| 3793 | X | 6K8 |
| 3794 | X | 22K |
| 3795 | X | 22K |





K 3

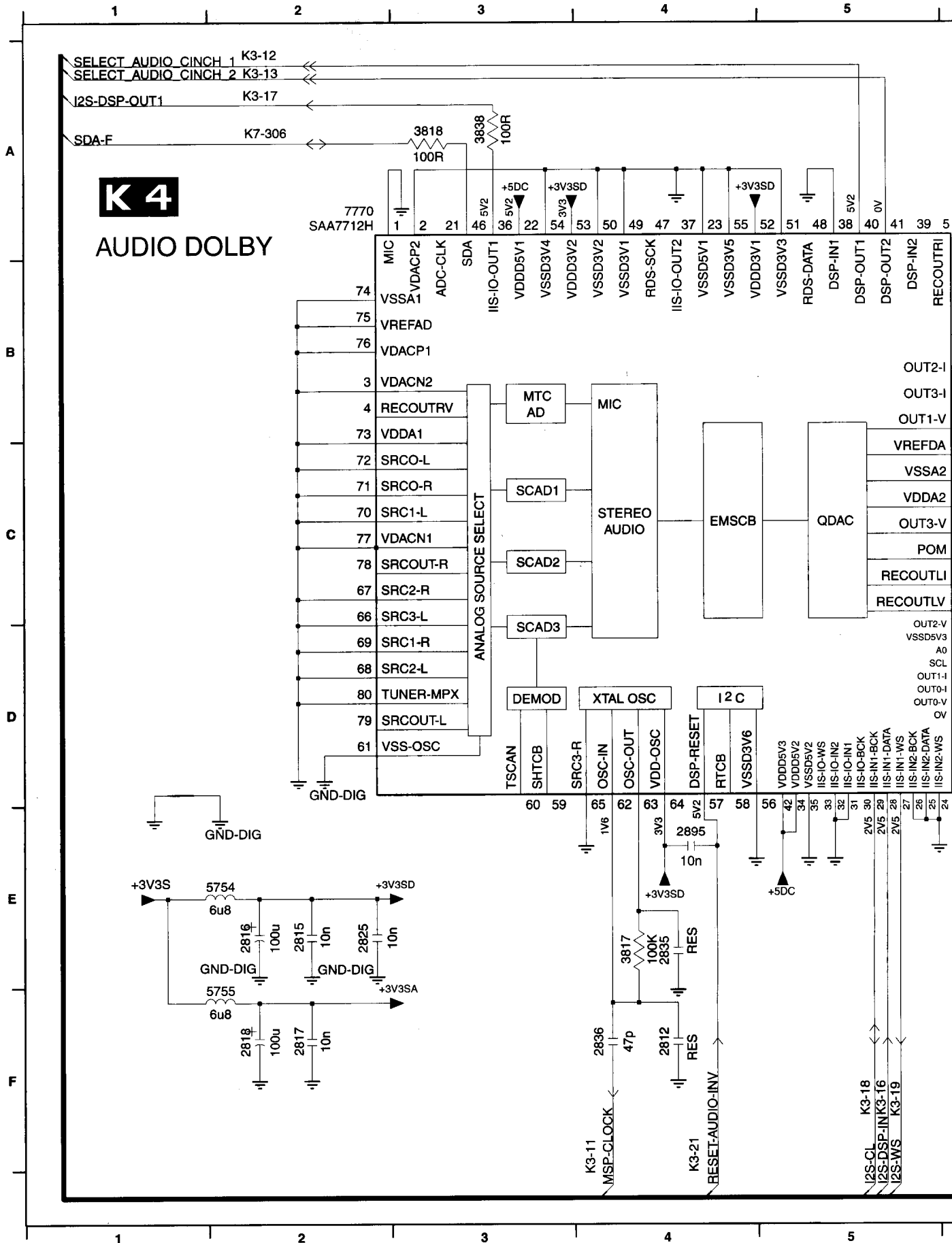
A 4

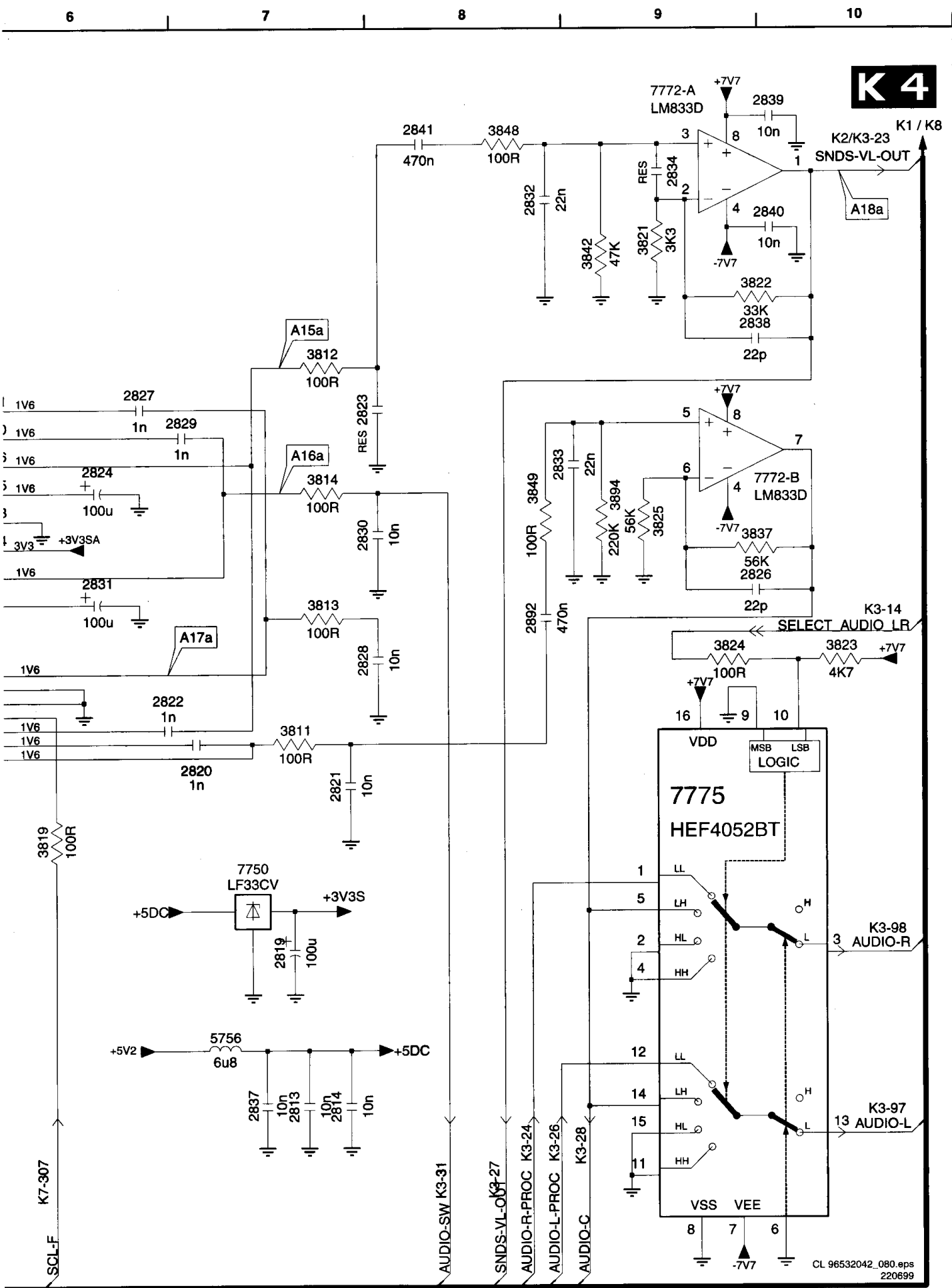
| Diagram | 1 | PIP | |
|---------|---|------------|----------------|
| K3/K6 | 2 | No PIP/FDS | |
| Item | 1 | 2 | Description |
| 0344 | X | X | 4822 267 10963 |
| 0348 | X | X | 4822 267 11043 |
| 2410 | X | X | 100nF |
| 2411 | X | X | 100nF |
| 2412 | X | X | 100nF |
| 2783 | X | X | 470nF |
| 2784 | X | X | 470nF |
| 2785 | X | X | 1nF |
| 2786 | X | X | 1nF |
| 2790 | X | X | 22pF |
| 2791 | X | X | 22pF |
| 2792 | X | X | 10nF |
| 2793 | X | X | 10nF |
| 3765 | X | X | 68k |
| 3766 | X | X | 10k |
| 3767 | X | X | 68k |
| 3768 | X | X | 10k |
| 3796 | X | X | 120Ω |
| 3797 | X | X | 120Ω |
| 3830 | X | X | 120Ω |
| 3831 | X | X | 120Ω |
| 3846 | X | X | 47k |
| 3847 | X | X | 22k |
| 3852 | X | X | 22k |
| 3853 | X | X | 22k |
| 4410 | X | X | 1k |
| 4410 | X | X | Jumper 0805 |
| 4725 | X | X | Jumper 0805 |
| 4726 | X | X | Jumper 0803 |
| 6755 | X | X | PDZ10B |
| 6756 | X | X | PDZ10B |
| 7757 | X | X | NJM4556AM |

| Diagram | 1 | 2 | Description |
|----------|---|---|-------------|
| 0328 C14 | | | |
| 0344 E12 | | | |
| 0348 E13 | | | |
| 1751 G7 | | | |
| 2751 D3 | | | |
| 2752 D3 | | | |
| 2753 D3 | | | |
| 2754 E3 | | | |
| 2755 E3 | | | |
| 2756 E3 | | | |
| 2757 F3 | | | |
| 2758 F3 | | | |
| 2759 F3 | | | |
| 2760 F3 | | | |
| 2761 F2 | | | |
| 2762 F2 | | | |
| 2763 G3 | | | |
| 2764 G3 | | | |
| 2765 H2 | | | |
| 2766 H2 | | | |
| 2767 H7 | | | |
| 2768 H7 | | | |
| 2769 B9 | | | |
| 2770 A10 | | | |
| 2771 C10 | | | |
| 2772 C10 | | | |
| 2773 D8 | | | |
| 2774 D8 | | | |
| 2775 A9 | | | |
| 2776 A10 | | | |
| 2777 E8 | | | |
| 2778 D8 | | | |
| 2779 E8 | | | |
| 2780 E8 | | | |
| 2781 E9 | | | |
| 2782 E9 | | | |
| 2783 D10 | | | |
| 2784 E9 | | | |
| 2785 E8 | | | |
| 2786 E8 | | | |
| 2790 E10 | | | |
| 2791 E11 | | | |
| 2792 D11 | | | |
| 2793 E10 | | | |
| 2797 I12 | | | |
| 2798 G12 | | | |
| 2799 I12 | | | |
| 2800 H12 | | | |
| 2801 D3 | | | |
| 2802 E2 | | | |
| 2803 E2 | | | |
| 2804 E2 | | | |
| 2805 E2 | | | |
| 2806 F2 | | | |
| 2807 F2 | | | |
| 2808 B7 | | | |
| 2809 B7 | | | |
| 2810 H2 | | | |
| 2811 H2 | | | |
| 2812 A11 | | | |
| 2815 B11 | | | |
| 2816 F8 | | | |
| 2817 F8 | | | |
| 2818 F8 | | | |
| 2819 G8 | | | |
| 2820 C8 | | | |
| 2821 C8 | | | |
| 2822 G2 | | | |
| 2823 G2 | | | |
| 2824 G2 | | | |
| 2825 F1 | | | |
| 2827 F1 | | | |
| 2828 C3 | | | |
| 2829 C3 | | | |
| 2830 C10 | | | |
| 2837 A10 | | | |
| 2838 C9 | | | |
| 2839 A12 | | | |
| 2840 E10 | | | |
| 2841 E10 | | | |
| 2842 E11 | | | |
| 2843 E11 | | | |
| 2844 G9 | | | |
| 2845 G9 | | | |
| 2846 G9 | | | |
| 2847 H9 | | | |
| 2848 H9 | | | |
| 2849 H9 | | | |
| 2850 G11 | | | |
| 2851 G11 | | | |
| 2852 G11 | | | |
| 2853 F11 | | | |
| 2854 F11 | | | |
| 2855 F11 | | | |
| 2856 E1 | | | |
| 2857 E1 | | | |
| 2858 E1 | | | |
| 2859 E1 | | | |
| 2860 F1 | | | |
| 2861 F1 | | | |
| 2862 F1 | | | |
| 2863 F1 | | | |
| 2864 F1 | | | |
| 2865 F1 | | | |
| 2866 F1 | | | |
| 2867 F1 | | | |
| 2868 F1 | | | |
| 2869 F1 | | | |
| 2870 F1 | | | |
| 2871 F1 | | | |
| 2872 F1 | | | |
| 2873 F1 | | | |
| 2874 F1 | | | |
| 2875 F1 | | | |
| 2876 F1 | | | |
| 2877 F1 | | | |
| 2878 F1 | | | |
| 2879 F1 | | | |
| 2880 F1 | | | |
| 2881 F1 | | | |
| 2882 F1 | | | |
| 2883 F1 | | | |
| 2884 F1 | | | |
| 2885 F1 | | | |
| 2886 F1 | | | |
| 2887 F1 | | | |
| 2888 F1 | | | |
| 2889 F1 | | | |
| 2890 F1 | | | |
| 2891 F1 | | | |
| 2892 F1 | | | |
| 2893 F1 | | | |
| 2894 F1 | | | |
| 2895 F1 | | | |
| 2896 F1 | | | |
| 2897 F1 | | | |
| 2898 F1 | | | |
| 2899 F1 | | | |
| 2900 F1 | | | |
| 2901 F1 | | | |
| 2902 F1 | | | |
| 2903 F1 | | | |
| 2904 F1 | | | |
| 2905 F1 | | | |
| 2906 F1 | | | |
| 2907 F1 | | | |
| 2908 F1 | | | |
| 2909 F1 | | | |
| 2910 F1 | | | |
| 2911 F1 | | | |
| 2912 F1 | | | |
| 2913 F1 | | | |
| 2914 F1 | | | |
| 2915 F1 | | | |
| 2916 F1 | | | |
| 2917 F1 | | | |
| 2918 F1 | | | |
| 2919 F1 | | | |
| 2920 F1 | | | |
| 2921 F1 | | | |
| 2922 F1 | | | |
| 2923 F1 | | | |
| 2924 F1 | | | |
| 2925 F1 | | | |
| 2926 F1 | | | |
| 2927 F1 | | | |
| 2928 F1 | | | |
| 2929 F1 | | | |
| 2930 F1 | | | |
| 2931 F1 | | | |
| 2932 F1 | | | |
| 2933 F1 | | | |
| 2934 F1 | | | |
| 2935 F1 | | | |
| 2936 F1 | | | |
| 2937 F1 | | | |
| 2938 F1 | | | |
| 2939 F1 | | | |
| 2940 F1 | | | |
| 2941 F1 | | | |
| 2942 F1 | | | |
| 2943 F1 | | | |
| 2944 F1 | | | |
| 2945 F1 | | | |
| 2946 F1 | | | |
| 2947 F1 | | | |
| 2948 F1 | | | |
| 2949 F1 | | | |
| 2950 F1 | | | |
| 2951 F1 | | | |
| 2952 F1 | | | |
| 2953 F1 | | | |
| 2954 F1 | | | |
| 2955 F1 | | | |
| 2956 F1 | | | |
| 2957 F1 | | | |
| 2958 F1 | | | |
| 2959 F1 | | | |
| 2960 F1 | | | |
| 2961 F1 | | | |
| 2962 F1 | | | |
| 2963 F1 | | | |
| 2964 F1 | | | |
| 2965 F1 | | | |
| 2966 F1 | | | |
| 2967 F1 | | | |
| 2968 F1 | | | |
| 2969 F1 | | | |
| 2970 F1 | | | |
| 2971 F1 | | | |
| 2972 F1 | | | |
| 2973 F1 | | | |
| 2974 F1 | | | |
| 2975 F1 | | | |
| 2976 F1 | | | |
| 2977 F1 | | | |
| 2978 F1 | | | |
| 2979 F1 | | | |
| 2980 F1 | | | |
| 2981 F1 | | | |
| 2982 F1 | | | |
| 2983 F1 | | | |
| 2984 F1 | | | |
| 2985 F1 | | | |
| 2986 F1 | | | |
| 2987 F1 | | | |
| 2988 F1 | | | |
| 2989 F1 | | | |
| 2990 F1 | | | |
| 2991 F1 | | | |
| 2992 F1 | | | |
| 2993 F1 | | | |
| 2994 F1 | | | |
| 2995 F1 | | | |
| 2996 F1 | | | |
| 2997 F1 | | | |
| 2998 F1 | | | |
| 2999 F1 | | | |
| 3000 F1 | | | |

| Diagram | 1 | 2 | Description |
|----------|---|---|-------------|
| 3829 C11 | | | |
| 3830 E12 | | | |
| 3831 F12 | | | |
| 3832 B8 | | | |
| 3833 B8 | | | |
| 2769 X | X | X | 470nF |
| 3839 B6 | | | |
| 2770 X | X | X | 10nF |
| 3840 B8 | | | |
| 2771 X | X | X | 10nF |
| 3841 B6 | | | |
| 2772 X | X | X | 22pF |
| 3844 A9 | | | |
| 2773 X | X | X | 1nF |
| 3845 C9 | | | |
| 2774 X | X | X | 1nF |
| 3846 D11 | | | |
| 2775 X | X | X | 470nF |
| 3847 E9 | | | |
| 2776 X | X | X | 22pF |
| 3848 E9 | | | |
| 2813 X | X | X | 10nF |
| 3849 D12 | | | |
| 2814 X | X | X | 10nF |
| 3890 D12 | | | |
| 2815 X | X | X | 10nF |
| 3891 D12 | | | |
| 2816 X | X | X | 100μF |
| 3892 D12 | | | |
| 2817 X | X | X | 100μF |
| 3893 D12 | | | |
| 2818 X | X | X | 100μF |
| 3894 A12 | | | |
| 2819 X | X | X | 100μF |
| 3895 A12 | | | |
| 2820 X | X | X | 1nF |
| 3896 B9 | | | |
| 2821 X | X | X | 10nF |
| 3897 B9 | | | |
| 2822 X | X | X | 1nF |
| 3898 B9 | | | |
| 2823 X | X | X | 100μF |
| 3899 B9 | | | |
| 2824 X | X | X | 100μF |
| 3900 B9 | | | |
| 2825 X | X | X | 10nF |
| 3901 B9 | | | |
| 2826 X | X | X | 22pF |
| 3902 B9 | | | |
| 2827 X | X | X | 1nF |
| 3903 B9 | | | |
| 2828 X | X | X | 10nF |
| 3904 B9 | | | |
| 2829 X | X | X | 10nF |
| 3905 B9 | | | |
| 2830 X | X | X | 10nF |
| 3906 B9 | | | |
| 2831 X | X | X | 100μF |
| 3907 B9 | | | |
| 2832 X | X | X | 22nF |
| 3908 B9 | | | |
| 2833 X | X | X | 22nF |
| 3909 B9 | | | |
| 2834 X | X | X | 47pF |
| 3910 B9 | | | |
| 2835 X | X | X | 10nF |
| 3911 B9 | | | |
| 2836 X | X | X | 22pF |
| 3912 B9 | | | |
| 2837 X | X | X | 10nF |
| 3913 B9 | | | |
| 2838 X | X | X | 10nF |
| 3914 B9 | | | |
| 2839 X | X | X | 10nF</ |

Small signal panel





- 2812 F4
- 2813 F7
- 2814 F7
- 2815 E2
- 2816 E2
- 2817 F2
- 2818 F2
- 2819 E7
- 2820 D7
- 2821 D7
- 2822 D6
- 2823 B8
- 2824 B6
- 2825 E2
- 2826 C9
- 2827 B6
- 2828 C8
- 2829 B7
- 2830 C8
- 2831 C6
- 2832 A8
- 2833 B9
- 2834 A9
- 2835 E4
- 2836 F4
- 2837 F7
- 2838 B9
- 2839 A10
- 2840 A10
- 2841 A8
- 2892 C8
- 2895 E4
- 3811 D7
- 3812 B7
- 3813 C7
- 3814 C7
- 3817 E4
- 3818 A3
- 3819 D6
- 3821 A9
- 3822 B9
- 3823 C10
- 3824 C9
- 3825 C9
- 3837 C9
- 3838 A3
- 3842 A9
- 3848 A8
- 3849 C8
- 3894 C9
- 5754 E2
- 5755 F2
- 5756 E7
- 7750 E7
- 7770 A2
- 7772-A A9
- 7772-B C9
- 7775 D9

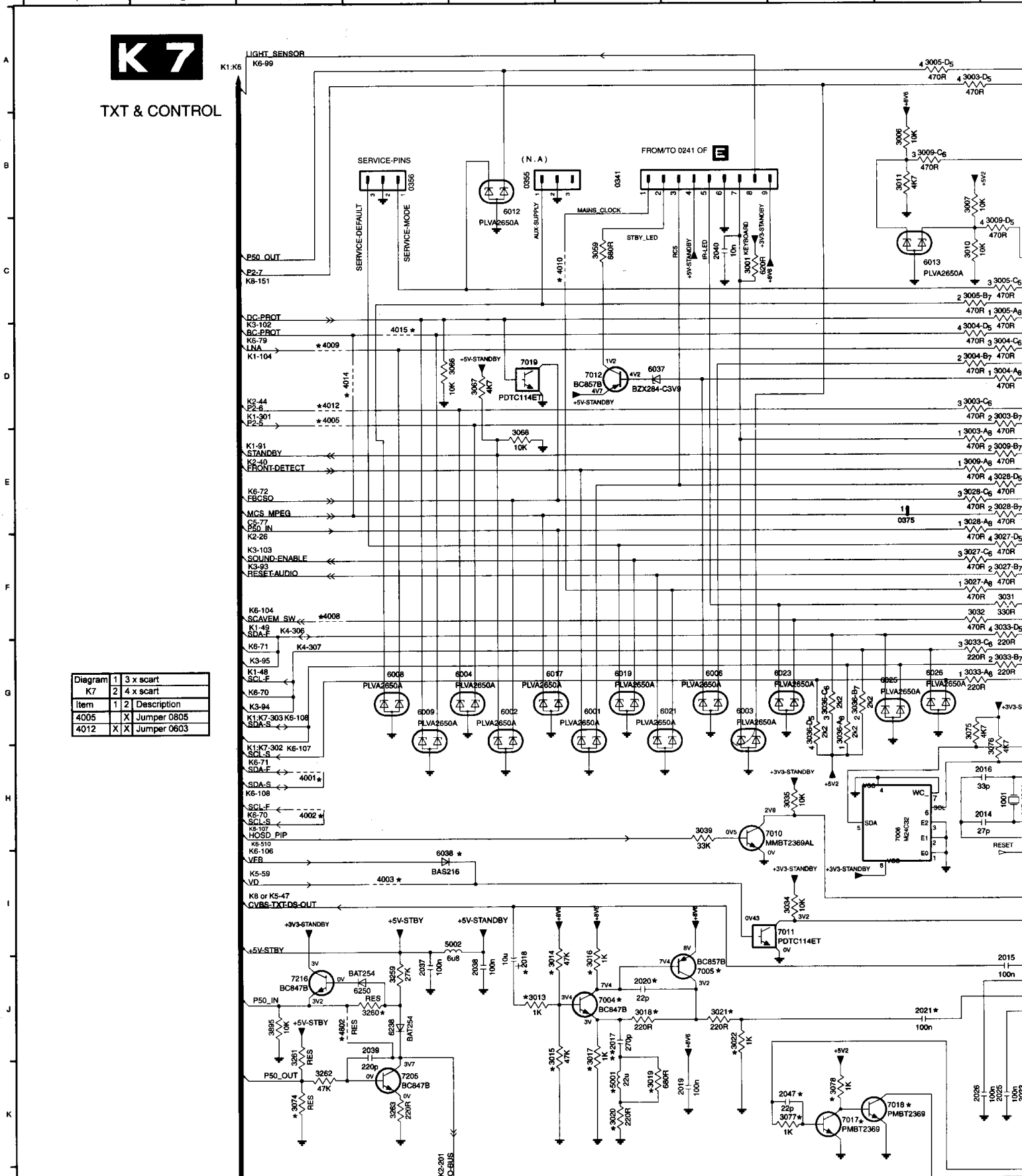
Small signal panel

| | | | | | | | | | | | | | | | | | | | |
|----------|----------|----------|----------|----------|----------|----------|------------|------------|------------|------------|------------|------------|------------|-----------|------------|-----------|-----------|-----------|-----------|
| 0341 B6 | 2003 F15 | 2012 B11 | 2020 J6 | 2028 B12 | 2039 J4 | 2047 K8 | 3003-A E9 | 3005-A C10 | 3008-C B9 | 3017 J6 | 3023-C K12 | 3028-A E9 | 3030-D J14 | 3035 H8 | 3043 J17 | 3049-C D2 | 3051-C E2 | 3053-C F2 | 3055-C G2 |
| 0355 B5 | 2005 B15 | 2013 K11 | 2021 J9 | 2029 J17 | 2040 C7 | 2049 B18 | 3003-B D10 | 3005-B C9 | 3009-D C10 | 3018 J6 | 3023-D K13 | 3028-B E10 | 3031 F10 | 3036-A G8 | 3047 K10 | 3049-D D2 | 3051-D E2 | 3053-D F2 | 3055-D G2 |
| 0356 B4 | 2006 F14 | 2014 H10 | 2022 K10 | 2030 J15 | 2041 K15 | 2050 H14 | 3003-C D9 | 3005-C C10 | 3010 C9 | 3019 K6 | 3024 K12 | 3028-C E9 | 3032 F9 | 3036-B G8 | 3048-A K13 | 3050-A D2 | 3052-A E2 | 3054-A F2 | 3056-A G2 |
| 0375 E9 | 2007 F14 | 2015 J10 | 2023 K10 | 2031 B18 | 2042 K15 | 2051 H14 | 3003-D A9 | 3005-D A9 | 3011 B9 | 3020 K6 | 3026 K14 | 3028-D E10 | 3033-A G9 | 3036-C G8 | 3048-B K13 | 3050-B D2 | 3052-B E2 | 3054-B F2 | 3056-B G2 |
| 0399 E16 | 2008 B12 | 2016 H10 | 2024 I14 | 2032 J16 | 2043 K15 | 2052 H14 | 3004-A D10 | 3006 B9 | 3013 J5 | 3021 J7 | 3027-A F9 | 3029 K14 | 3033-B G10 | 3036-D G8 | 3048-C K13 | 3050-C D2 | 3052-C E2 | 3054-C F2 | 3056-C G2 |
| 1001 H10 | 2009 B12 | 2017 J6 | 2025 K10 | 2035 L17 | 2044 K15 | 2053 H14 | 3004-B D9 | 3007 B9 | 3014 J5 | 3022 J7 | 3027-B F10 | 3030-A J15 | 3033-C G9 | 3039 H7 | 3048-D K13 | 3050-D D2 | 3052-D E2 | 3054-D G2 | 3056-D G2 |
| 2001 K16 | 2010 B12 | 2018 J5 | 2026 K9 | 2037 J4 | 2045 F14 | 2054 H16 | 3004-C D10 | 3009-A E9 | 3015 J5 | 3023-A K12 | 3027-C F9 | 3030-B J14 | 3033-D F10 | 3041 K16 | 3049-A C2 | 3051-A D2 | 3053-A F2 | 3055-A G2 | 3057-A G2 |
| 2002 J16 | 2011 B11 | 2019 K7 | 2027 B12 | 2038 J5 | 2046 J15 | 3001 C7 | 3004-D D9 | 3009-B E10 | 3016 J6 | 3023-B K12 | 3027-D F10 | 3030-C J15 | 3034 I8 | 3042 K16 | 3049-B C2 | 3051-B E2 | 3053-B F2 | 3055-B G2 | 3057-B G2 |



TXT & CONTROL

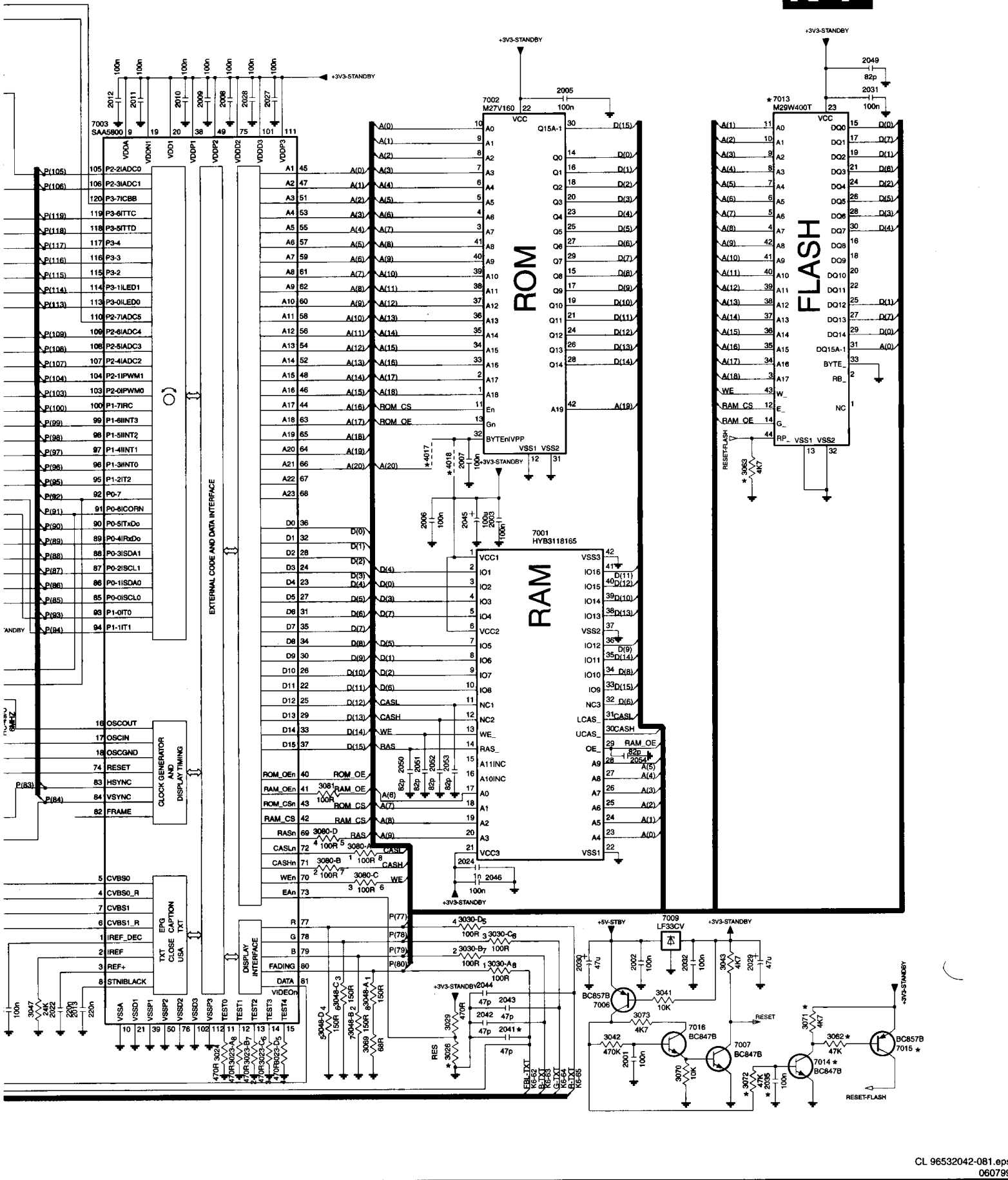
| Diagram | 1 | 2 | 3 | 4 |
|---------|---|---|-------------|---|
| K7 | 1 | 2 | 3 | 4 |
| Item | 1 | 2 | Description | |
| 4005 | X | X | Jumper 0805 | |
| 4012 | X | X | Jumper 0603 | |



| | | | | | | | | | | | |
|--------|-----------|----------|------------|---------|----------|----------|---------|----------|----------|----------|---------|
| 5-C G2 | 3057-C H2 | 3068 K13 | 3077 K8 | 3260 J4 | 4005 D3 | 4018 F14 | 6006 G7 | 6023 G8 | 7002 B15 | 7010 H7 | 7018 K9 |
| 5-D G2 | 3057-D H2 | 3070 K16 | 3078 K8 | 3261 J3 | 4008 F3 | 4802 J3 | 6008 G4 | 6025 G9 | 7003 B11 | 7011 I8 | 7019 D5 |
| 6-A G2 | 3059 C6 | 3071 K18 | 3080-A I13 | 3262 K3 | 4009 D3 | 5001 K6 | 6009 G4 | 6026 G9 | 7004 J6 | 7012 D6 | 7205 K4 |
| 6-B G2 | 3062 K18 | 3072 L17 | 3080-B I13 | 3263 K4 | 4010 C6 | 5002 I5 | 6012 B5 | 6037 D6 | 7005 J7 | 7013 B17 | 7216 J3 |
| 6-C H2 | 3063 F17 | 3073 K16 | 3080-C J13 | 3265 J3 | 4012 D3 | 6001 G6 | 6013 C9 | 6038 I4 | 7006 K16 | 7014 K18 | |
| 6-D H2 | 3066 D5 | 3074 K3 | 3080-D I13 | 4001 K3 | 4014 D3 | 6002 G5 | 6017 G6 | 6238 J4 | 7007 K17 | 7015 K18 | |
| 7-A H2 | 3067 D5 | 3075 G9 | 3081 I13 | 4002 H3 | 4015 D4 | 6003 G7 | 6019 G6 | 6250 J4 | 7008 H9 | 7016 K16 | |
| 7-B H2 | 3068 E5 | 3076 H10 | 3259 J4 | 4003 I4 | 4017 E14 | 6004 G5 | 6021 G7 | 7001 F15 | 7009 J16 | 7017 K8 | |

| OTC | | | | | | |
|---------|-----------|----------|----------|---------------|---------------|---------------|
| Pin nr. | Pin name | MG1.1E | MG2.1E | MG3.1E | MG3.1A | MG3.1U |
| 93 | P1-0/TO | | | | MAINS CLOCK | MAINS CLOCK |
| 96 | P1-5/INT2 | | | MCS/MPG | | IRQ-digital |
| 108 | P2-6/ADC3 | | | STATUS 4 | AGC | |
| 109 | P2-6/ADC4 | STATUS 3 | STATUS 3 | STATUS 3 | 16.9 AR front | 16.9 AR front |
| 110 | P2-7/ADC5 | | | RGB1/fr/ontUI | | |
| 115 | P3-2 | | | LNA | LNA | |
| 118 | P3-5/TTD | | | AUX SUPPLY | AUX SUPPLY | AUX SUPPLY |

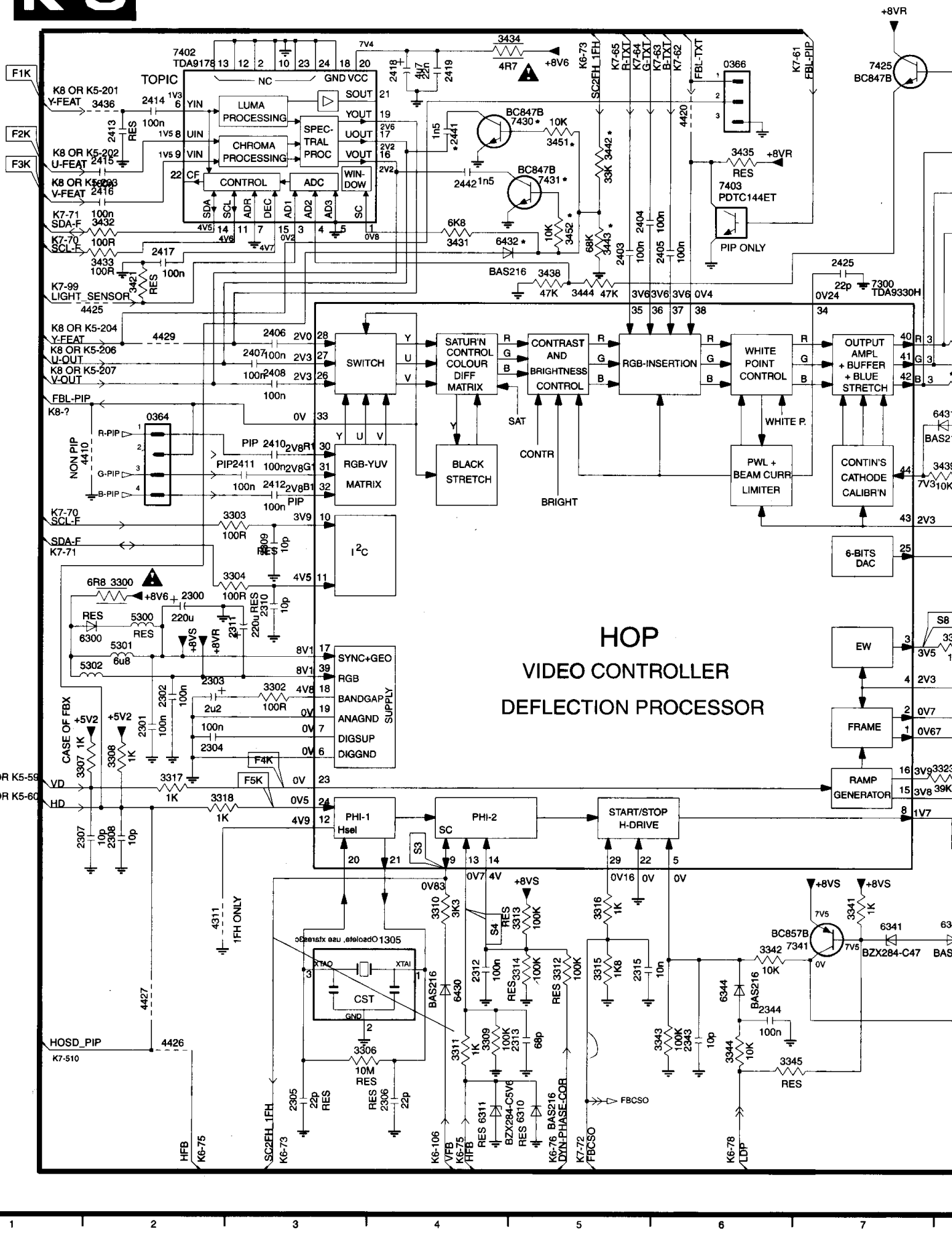
10 11 12 13 14 15 16 17 18 19



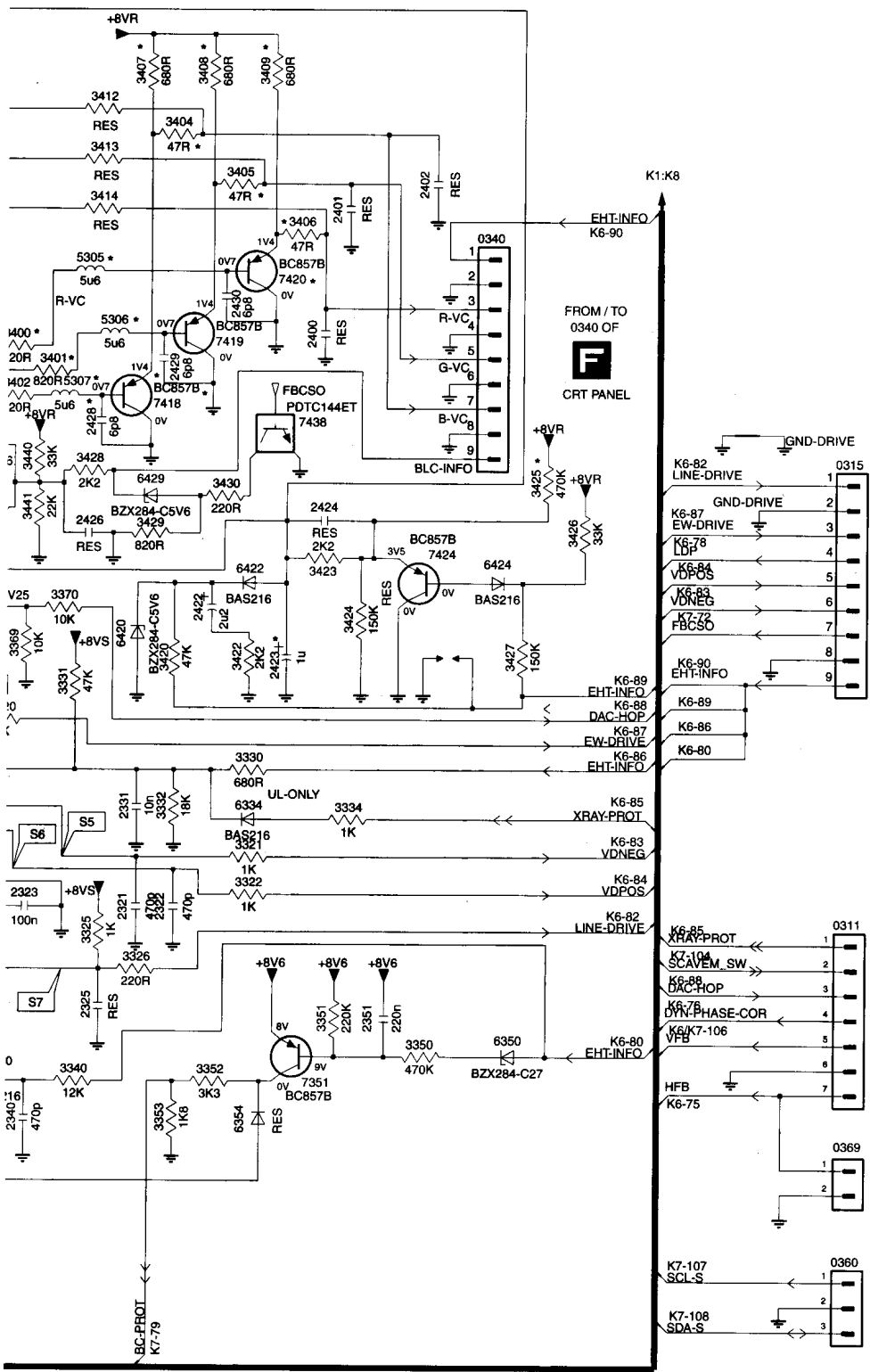
Small signal panel

K6

VIDEO CONTROL & GEOMETRY



K 6



| | | |
|----------|----------|----------|
| 0311 G12 | 3331 E8 | 7402 A2 |
| 0315 D12 | 3332 F9 | 7403 B6 |
| 0340 C10 | 3334 F10 | 7418 D8 |
| 0360 I12 | 3340 H8 | 7419 C9 |
| 0364 D2 | 3341 G7 | 7420 C9 |
| 0366 A6 | 3342 H6 | 7424 E10 |
| 0369 H12 | 3343 H6 | 7425 A7 |
| 1305 H4 | 3344 H6 | 7430 B5 |
| 2300 E2 | 3345 H6 | 7431 B5 |
| 2301 F2 | 3350 G10 | 7438 D9 |
| 2302 F2 | 3351 G10 | |
| 2303 F2 | 3352 H9 | |
| 2304 F2 | 3353 H9 | |
| 2305 I3 | 3369 E8 | |
| 2306 I4 | 3370 E8 | |
| 2307 G2 | 3400 C8 | |
| 2308 G2 | 3401 C8 | |
| 2309 E3 | 3402 D8 | |
| 2310 E3 | 3404 B9 | |
| 2311 E3 | 3405 B9 | |
| 2312 H4 | 3406 C9 | |
| 2313 H5 | 3407 B8 | |
| 2315 H5 | 3408 B9 | |
| 2321 G8 | 3409 B9 | |
| 2322 G9 | 3412 B8 | |
| 2323 G8 | 3413 B8 | |
| 2325 G8 | 3414 C8 | |
| 2331 F8 | 3420 E9 | |
| 2340 H8 | 3421 C2 | |
| 2343 H6 | 3422 E9 | |
| 2344 H6 | 3423 E9 | |
| 2351 G10 | 3424 E10 | |
| 2400 C9 | 3425 D11 | |
| 2401 C10 | 3426 D11 | |
| 2402 B10 | 3427 E11 | |
| 2403 C5 | 3428 D8 | |
| 2404 C5 | 3429 D8 | |
| 2405 C6 | 3430 D9 | |
| 2406 C3 | 3431 C4 | |
| 2407 C3 | 3432 C2 | |
| 2408 D3 | 3433 C2 | |
| 2410 D3 | 3434 A4 | |
| 2411 D3 | 3435 B6 | |
| 2412 D3 | 3436 B2 | |
| 2413 B2 | 3438 C5 | |
| 2414 B2 | 3439 D8 | |
| 2415 B2 | 3440 D8 | |
| 2416 B2 | 3441 D8 | |
| 2417 C2 | 3442 B5 | |
| 2418 A4 | 3443 C5 | |
| 2419 A4 | 3444 C5 | |
| 2422 E9 | 3451 B5 | |
| 2423 E9 | 3452 C5 | |
| 2424 D9 | 4311 G2 | |
| 2425 C7 | 4410 D2 | |
| 2426 D8 | 4420 B6 | |
| 2428 D8 | 4425 C2 | |
| 2429 C8 | 4426 H2 | |
| 2430 C9 | 4427 H2 | |
| 2441 B4 | 4429 C2 | |
| 2442 B4 | 5300 E2 | |
| 3300 E2 | 5301 F2 | |
| 3302 F3 | 5302 F2 | |
| 3303 E3 | 5305 C8 | |
| 3304 E3 | 5306 C8 | |
| 3306 H3 | 5307 D8 | |
| 3307 F2 | 6300 E2 | |
| 3308 F2 | 6310 I5 | |
| 3309 H4 | 6311 I4 | |
| 3310 G4 | 6334 F9 | |
| 3311 H4 | 6340 H8 | |
| 3312 H5 | 6341 H7 | |
| 3313 G5 | 6344 H6 | |
| 3314 H5 | 6350 G11 | |
| 3315 H5 | 6354 H9 | |
| 3316 G5 | 6420 E8 | |
| 3317 F2 | 6422 E9 | |
| 3318 G2 | 6424 E10 | |
| 3320 E8 | 6429 D8 | |
| 3321 F9 | 6430 H4 | |
| 3322 F9 | 6431 D8 | |
| 3323 F8 | 6432 C4 | |
| 3325 G6 | 7300 C7 | |
| 3326 G8 | 7341 H7 | |
| 3330 F9 | 7351 H10 | |

FROM / TO
0315 OF
A1

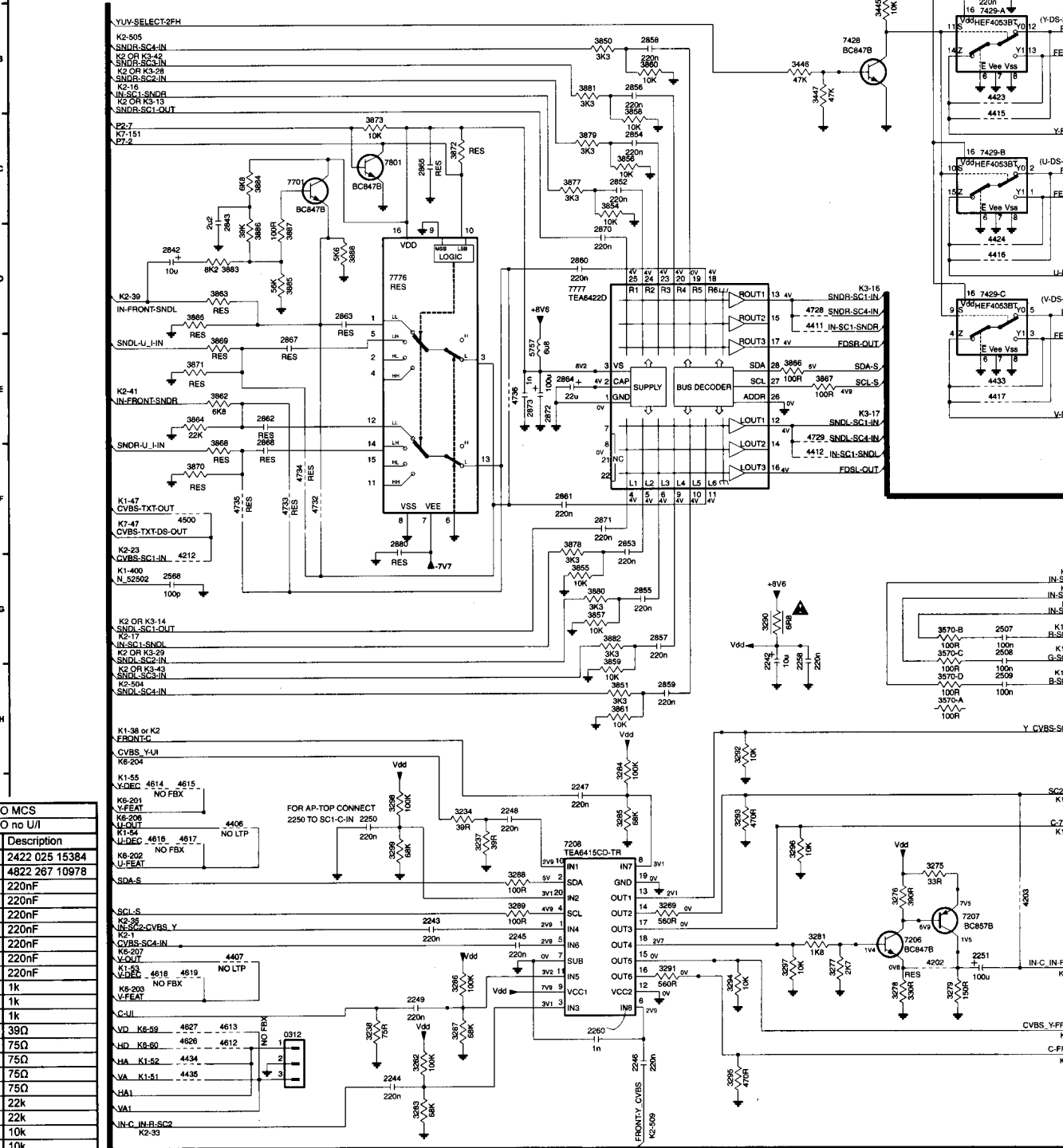
TO LSP
A1

TO 0360 OF
A2

Small signal panel

| | | | | | | | | | | | | | | | | | |
|----------|----------|----------|----------|---------|---------|----------|----------|---------|---------|-----------|-----------|---------|---------|---------|------------|------------|------------|
| 0312 K3 | 0373 K17 | 2251 J8 | 2431 G12 | 2509 H9 | 2858 B6 | 2870 D6 | 3237 I5 | 3278 J8 | 3289 J5 | 3299 I4 | 3570-C G9 | 3857 G6 | 3867 E8 | 3890 G6 | 4203 J10 | 4222-A J13 | 4411 D8 |
| 0351 A17 | 2242 G7 | 2252 B12 | 2432 H12 | 2568 G2 | 2859 H6 | 2871 F6 | 3238 K4 | 3279 J9 | 3290 G7 | 3445 B8 | 3570-D H9 | 3858 C6 | 3868 F2 | 3881 B6 | 4212 Q1 | 4222-B J13 | 4412 F8 |
| 0352 C17 | 2243 J4 | 2253 B12 | 2433 G12 | 2842 D2 | 2860 D6 | 2872 E5 | 3239 B10 | 3281 J8 | 3291 J6 | 3446 B8 | 3583 A15 | 3859 H6 | 3869 E2 | 3882 G6 | 4215 D11 | 4222-C J13 | 4415 C9 |
| 0359 D17 | 2244 K4 | 2254 C12 | 2434 G12 | 2843 C2 | 2861 F5 | 2873 E5 | 3251 C10 | 3282 K4 | 3292 H7 | 3447 B8 | 3584 A16 | 3860 B6 | 3870 F2 | 3883 D2 | 4216 D12 | 4222-D J13 | 4416 D9 |
| 0361 F17 | 2245 J5 | 2255 B12 | 2435 H12 | 2852 C6 | 2862 E3 | 2880 F4 | 3267 C10 | 3283 L4 | 3293 I7 | 3448 G15 | 3585 A17 | 3861 H6 | 3871 E2 | 3884 C3 | 4217 D12 | 4400 G16 | 4417 E9 |
| 0362 G17 | 2246 K6 | 2256 C12 | 2436 J15 | 2853 F6 | 2863 D3 | 2893 G12 | 3268 D10 | 3284 H6 | 3294 J7 | 3449 G15 | 3850 B6 | 3862 E2 | 3872 C4 | 3885 D3 | 4218 D12 | 4401 G16 | 4421-A J19 |
| 0366 K15 | 2247 I6 | 2257 C12 | 2437 J16 | 2854 C6 | 2864 E5 | 3214 B15 | 3269 J6 | 3285 I6 | 3295 K7 | 3450 H15 | 3851 H6 | 3863 D2 | 3873 C4 | 3886 D3 | 4219-A E11 | 4402 G16 | 4421-B K13 |
| 0370 I18 | 2248 I5 | 2258 G6 | 2440 A9 | 2855 G6 | 2865 C4 | 3217 C15 | 3275 I9 | 3286 J4 | 3296 I8 | 3453 H11 | 3854 C6 | 3864 E2 | 3877 C6 | 3887 D3 | 4219-B E11 | 4403 G16 | 4421-C K13 |
| 0371 J18 | 2249 K4 | 2259 D15 | 2507 G8 | 2856 B6 | 2867 E3 | 3226 C15 | 3276 J8 | 3287 K4 | 3297 J7 | 3570-A H9 | 3865 G6 | 3865 D2 | 3878 F5 | 3888 D4 | 4219-C E11 | 4406 I2 | 4421-D K13 |
| 0372 I17 | 2250 I4 | 2260 K6 | 2508 G8 | 2857 G6 | 2866 F3 | 3234 I5 | 3277 J8 | 3286 I6 | 3298 I4 | 3570-B G9 | 3856 C6 | 3866 E8 | 3879 C6 | 4202 J9 | 4219-D E11 | 4407 J2 | 4423 B9 |

K 8 SOURCE SELECTION (ADDITIONAL TO K1)

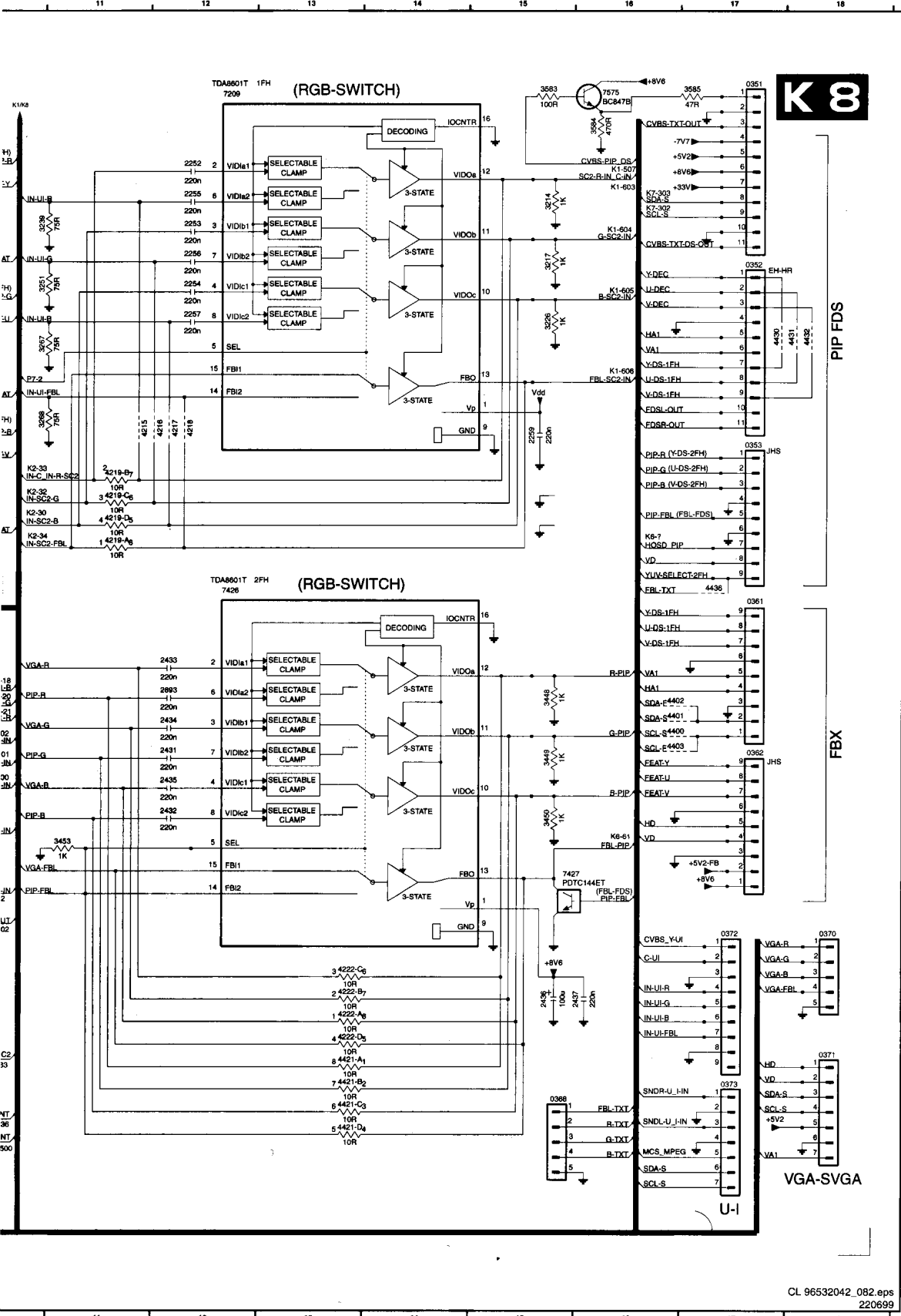


| Diagram | 1 | 2 | I/O MCS |
|---------|---|---|----------------|
| K8 | 1 | 2 | I/O no U/I |
| Item | 1 | 2 | Description |
| 0372 | | | 2422 025 15384 |
| 0373 | X | | 4822 267 10978 |
| 2252 | | | 220nF |
| 2253 | | | 220nF |
| 2254 | | | 220nF |
| 2255 | | | 220nF |
| 2256 | | | 220nF |
| 2257 | | | 220nF |
| 2259 | | | 220nF |
| 3214 | | | 1k |
| 3217 | | | 1k |
| 3226 | | | 1k |
| 3234 | | | 39Ω |
| 3239 | | | 75Ω |
| 3251 | | | 75Ω |
| 3267 | | | 75Ω |
| 3268 | | | 75Ω |
| 3870 | | | 22k |
| 3871 | | | 22k |
| 3872 | | | 10k |
| 3873 | | | 10k |
| 4219 | X | X | 4x100Ω |
| 7209 | | | TDA8801/C1 |
| 7776 | | | HEF4052BT |
| 7801 | | | BC847B |

| | | | | |
|----------|---------|---------|-----------|---------|
| 4424 D9 | 4613 K2 | 4729 E8 | 7209 A12 | 7777 D5 |
| 4430 C17 | 4614 I2 | 4732 F3 | 7426 F12 | 7801 C4 |
| 4431 C18 | 4615 I2 | 4734 F3 | 7427 I16 | |
| 4432 C18 | 4616 I2 | 4734 F3 | 7428 B8 | |
| 4433 E8 | 4617 I2 | 4735 F2 | 7429-A B9 | |
| 4434 K2 | 4618 J2 | 4736 E5 | 7429-B C9 | |
| 4435 K2 | 4619 J2 | 4737 E5 | 7429-C D9 | |
| 4436 F17 | 4626 K2 | 7206 J9 | 7575 A16 | |
| 4500 F2 | 4627 K2 | 7307 J9 | 7701 C3 | |
| 4612 K2 | 4728 D6 | 7208 I5 | 7776 D4 | |

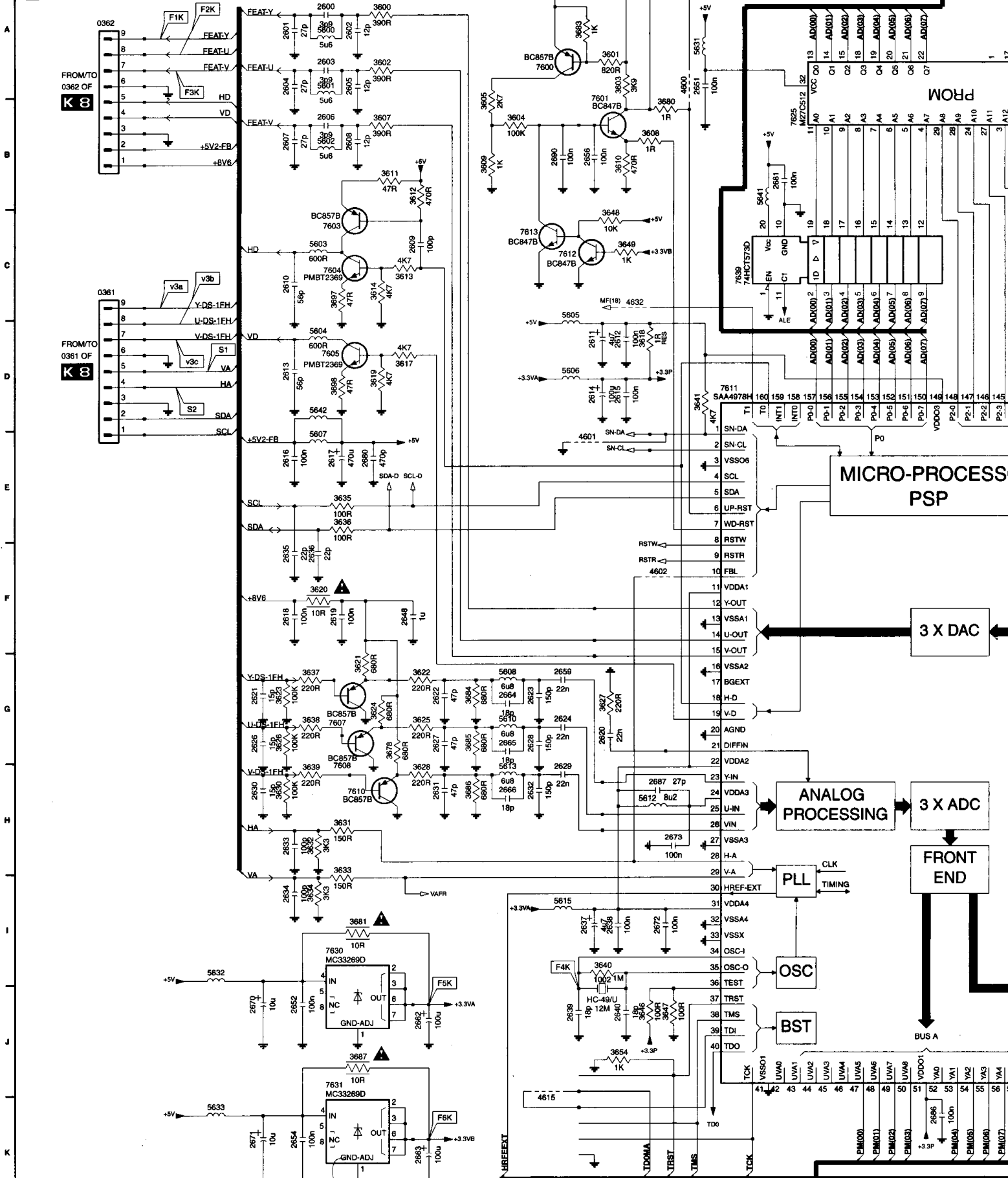
| Diagram K8 | 1 | No FDS | 2 | FDS |
|------------|---|--------|-------------|-------|
| Item | 1 | 2 | Description | |
| 0351 | X | | 2422 025 | 15385 |
| 0352 | X | | 4822 267 | 10962 |
| 0353 | X | | 2422 025 | 15384 |
| 0370 | | | 2422 025 | 15382 |
| 0371 | | | 2422 025 | 15383 |
| 2431 | | | 100nF | |
| 2432 | | | 100nF | |
| 2433 | | | 100nF | |
| 2434 | | | 100nF | |
| 2435 | | | 100nF | |
| 2437 | | | 100nF | |
| 2440 | | | 100nF | |
| 2893 | | | 100nF | |
| 3445 | | | 10k | |
| 3446 | | | 47k | |
| 3447 | | | 47k | |
| 3448 | | | 1k | |
| 3449 | | | 1k | |
| 3450 | | | 1k | |
| 3453 | | | 1k | |
| 3583 | X | | 100Ω | |
| 3584 | X | | 470Ω | |
| 3585 | X | | 47Ω | |
| 4222 | | | 4x10Ω | |
| 4421 | X | | 4x10Ω | |
| 4423 | X | X | Jumper 0805 | |
| 4424 | X | X | Jumper 0805 | |
| 4430 | X | | Jumper 0805 | |
| 4431 | X | | Jumper 0805 | |
| 4432 | X | | Jumper 0805 | |
| 4433 | X | | Jumper 0805 | |
| 4436 | X | | Jumper 0803 | |
| 4500 | X | X | Jumper 0805 | |
| 7426 | | | TDA9601T/C1 | |
| 7427 | | | POTC144ET | |
| 7428 | | | BC847B | |
| 7429 | | | HEF4053BT | |
| 7575 | X | | BC847B | |

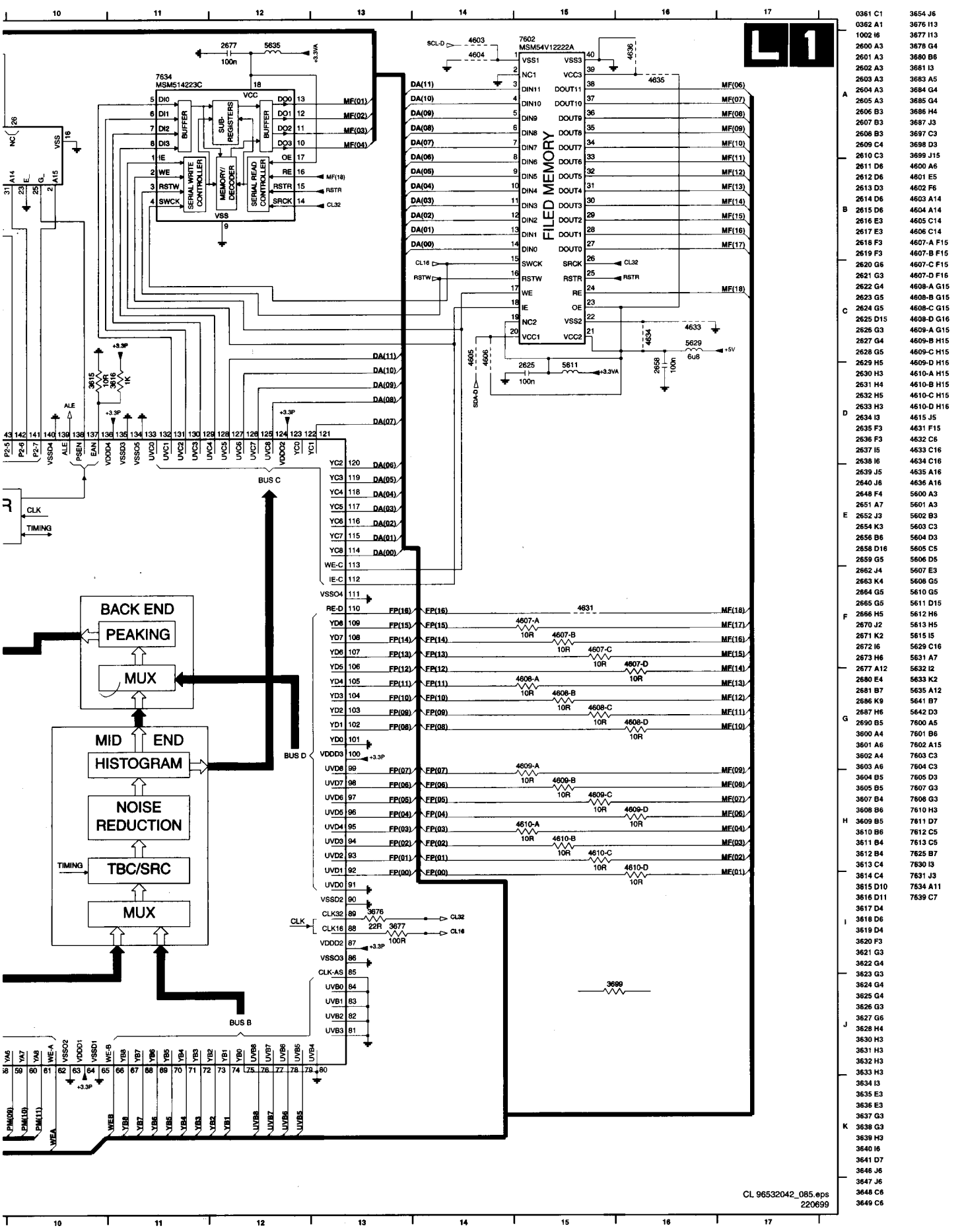
| Diagram K8 | 1 | No audio matrix | 2 | Audio matrix |
|------------|---|-----------------|-------------|--------------|
| Item | 1 | 2 | Description | |
| 2842 | X | | 10μF | |
| 2843 | X | | 2.2μF | |
| 2852 | X | | 220nF | |
| 2853 | X | | 220nF | |
| 2854 | X | | 220nF | |
| 2855 | X | | 220nF | |
| 2856 | X | | 220nF | |
| 2857 | X | | 220nF | |
| 2858 | X | | 220nF | |
| 2859 | X | | 220nF | |
| 2860 | X | | 220nF | |
| 2861 | X | | 220nF | |
| 2864 | X | | 22μF | |
| 2870 | X | | 220nF | |
| 2871 | X | | 220nF | |
| 2872 | X | | 100μF | |
| 2873 | X | | 1nF | |
| 3850 | X | | 3k3 | |
| 3851 | X | | 3k3 | |
| 3854 | X | | 10k | |
| 3855 | X | | 10k | |
| 3856 | X | | 10k | |
| 3857 | X | | 10k | |
| 3858 | X | | 10k | |
| 3859 | X | | 10k | |
| 3860 | X | | 10k | |
| 3861 | X | | 10k | |
| 3862 | X | | 6k8 | |
| 3864 | X | | 22k | |
| 3866 | X | | 100Ω | |
| 3867 | X | | 100Ω | |
| 3877 | X | | 3k3 | |
| 3878 | X | | 3k3 | |
| 3879 | X | | 3k3 | |
| 3880 | X | | 3k3 | |
| 3881 | X | | 3k3 | |
| 3882 | X | | 3k3 | |
| 3883 | X | | 8k2 | |
| 3884 | X | | 6k8 | |
| 3885 | X | | 56k | |
| 3886 | X | | 39k | |
| 3887 | X | | 100Ω | |
| 3888 | X | | 56k | |
| 4411 | X | X | Jumper 0805 | |
| 4412 | X | X | Jumper 0805 | |
| 4728 | X | | Jumper 0805 | |
| 4729 | X | | Jumper 0805 | |
| 4732 | X | | Jumper 0805 | |
| 4736 | X | | Jumper 0805 | |
| 5757 | X | X | 6.8μH | |
| 7701 | X | X | BC847B | |
| 7777 | X | X | TEA6422D | |



Featurebox

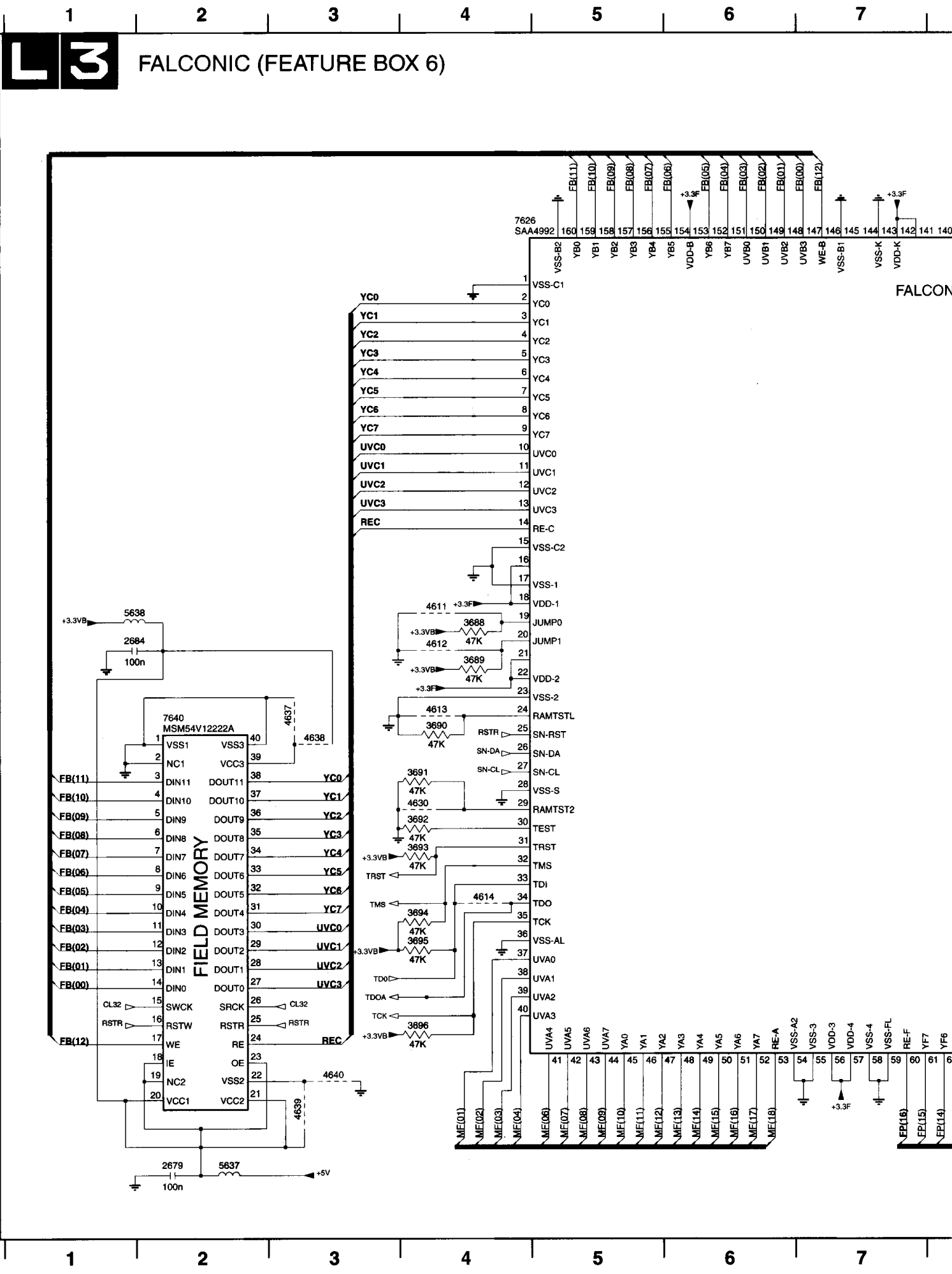
L1 FEATURE BOX (FEATURE BOX 6)





- 0361 C1
- 0362 A1
- 1002 I6
- 2600 A3
- 2601 A3
- 2602 A3
- 2603 A3
- 2604 A3
- 2605 A3
- 2606 B3
- 2607 B3
- 2608 B3
- 2609 C4
- 2610 C3
- 2611 D6
- 2612 D6
- 2613 D3
- 2614 D6
- 2615 D6
- 2616 E3
- 2617 E3
- 2618 F3
- 2619 F3
- 2620 G6
- 2621 G3
- 2622 G4
- 2623 G5
- 2624 G5
- 2625 D15
- 2626 G3
- 2627 G4
- 2628 G5
- 2629 H5
- 2630 H3
- 2631 H4
- 2632 H5
- 2633 H3
- 2634 I3
- 2635 F3
- 2636 F3
- 2637 I5
- 2638 I6
- 2639 J5
- 2640 J6
- 2641 F4
- 2642 A7
- 2643 J3
- 2644 K3
- 2645 B6
- 2646 D16
- 2647 J4
- 2648 K4
- 2649 G5
- 2650 G5
- 2651 A7
- 2652 J5
- 2653 H5
- 2654 G5
- 2655 G5
- 2656 H5
- 2657 J2
- 2658 K9
- 2659 B5
- 2660 A4
- 2661 A6
- 2662 A4
- 2663 A6
- 2664 B5
- 2665 B6
- 2666 B6
- 2667 B5
- 2668 B6
- 2669 B5
- 2670 B6
- 2671 B4
- 2672 B4
- 2673 I3
- 2674 C4
- 2675 D10
- 2676 D11
- 2677 D4
- 2678 D6
- 2679 D4
- 2680 F3
- 2681 G3
- 2682 G4
- 2683 G3
- 2684 G4
- 2685 H3
- 2686 H3
- 2687 G6
- 2688 H3
- 2689 H3
- 2690 E3
- 2691 E3
- 2692 G3
- 2693 G3
- 2694 G4
- 2695 G4
- 2696 G3
- 2697 G3
- 2698 H3
- 2699 H3
- 2700 H3
- 2701 C5
- 2702 C5
- 2703 B7
- 2704 I3
- 2705 J3
- 2706 D10
- 2707 D11
- 2708 D4
- 2709 D6
- 2710 F3
- 2711 G3
- 2712 G3
- 2713 G3
- 2714 I3
- 2715 E3
- 2716 E3
- 2717 G3
- 2718 G3
- 2719 H3
- 2720 H3
- 2721 H3
- 2722 H3
- 2723 H3
- 2724 H3
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- 2727 H3
- 2728 H3
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- 2755 H3
- 2756 H3
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- 2759 H3
- 2760 H3
- 2761 H3
- 2762 H3
- 2763 H3
- 2764 H3
- 2765 H3
- 2766 H3
- 2767 H3
- 2768 H3
- 2769 H3
- 2770 H3
- 2771 H3
- 2772 H3
- 2773 H3
- 2774 H3
- 2775 H3
- 2776 H3
- 2777 H3
- 2778 H3
- 2779 H3
- 2780 H3
- 2781 H3
- 2782 H3
- 2783 H3
- 2784 H3
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- 2791 H3
- 2792 H3
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- 2798 H3
- 2799 H3
- 2800 H3
- 2801 H3
- 2802 H3
- 2803 H3
- 2804 H3
- 2805 H3
- 2806 H3
- 2807 H3
- 2808 H3
- 2809 H3
- 2810 H3
- 2811 H3
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- 2816 H3
- 2817 H3
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- 2820 H3
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- 2833 H3
- 2834 I3
- 2835 E3
- 2836 E3
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- 2840 I6
- 2841 D7
- 2842 J6
- 2843 C6
- 2844 C6
- 2845 C6

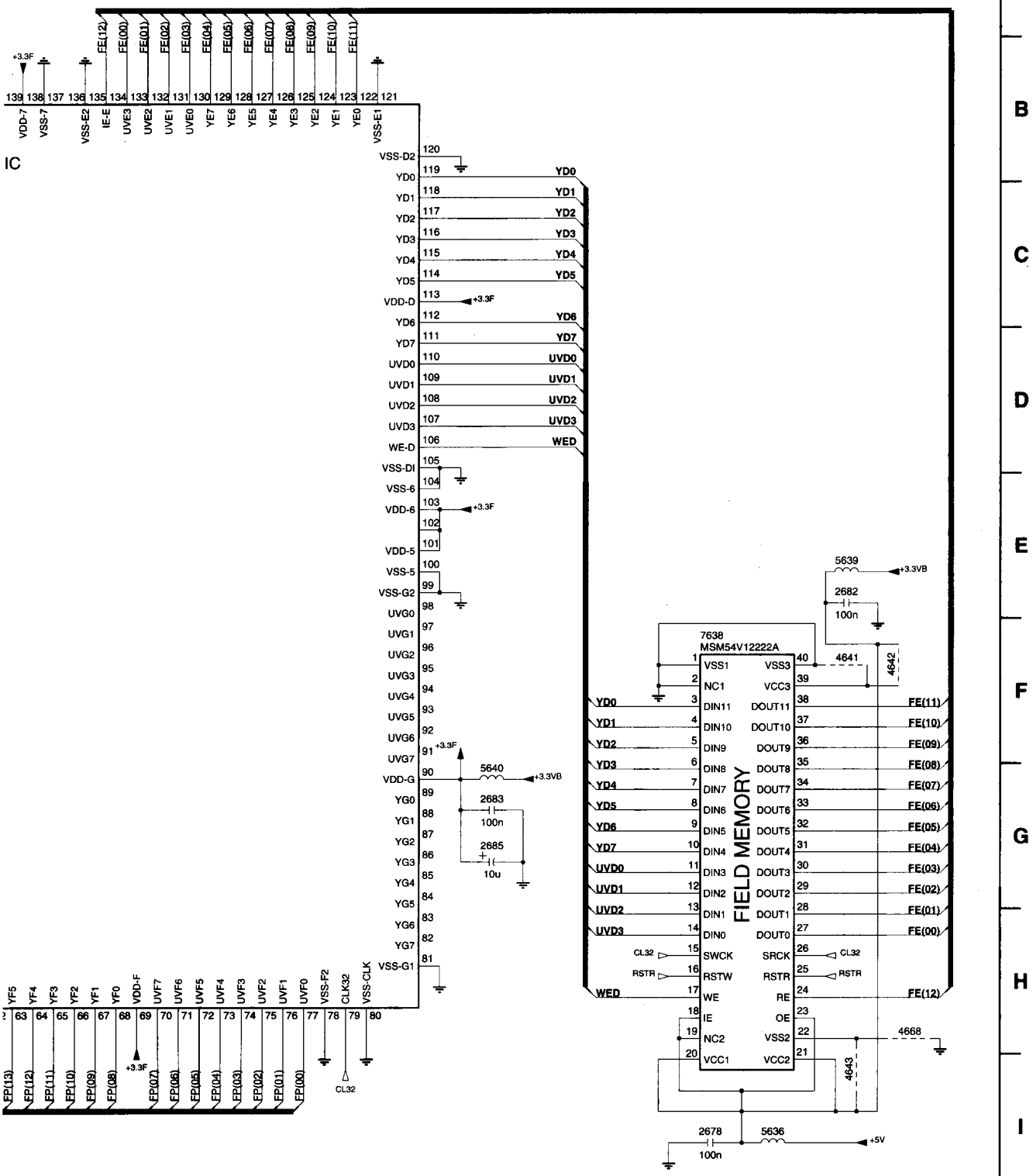
Featurebox



8 9 10 11 12 13 14

L 3

2878 I13
2879 I2
2882 E13
2883 G11
2884 E1
2885 G11
3688 E4
3689 E4
3690 F4
3691 F4
3692 F4
3693 G4
3694 G4
3695 G4
3696 H4
4611 E4
4612 E4
4613 F4
4614 G4
4630 F4
4637 F3
4638 F3
4639 I3
4640 H3
4641 F13
4642 F14
4643 I14
4668 H14
5636 I13
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5638 E1
5639 E13
5640 G11
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7638 F12
7640 F2

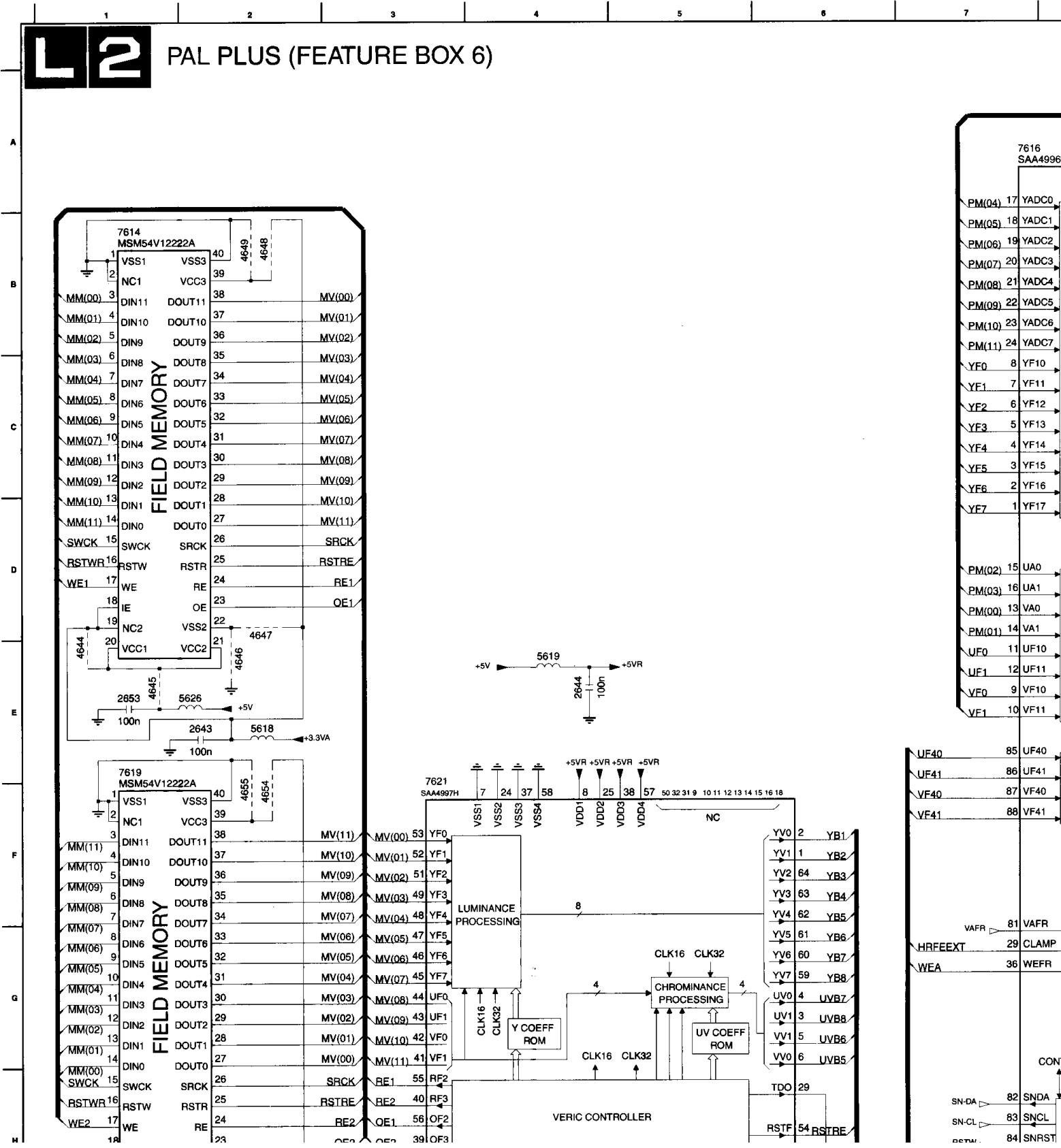


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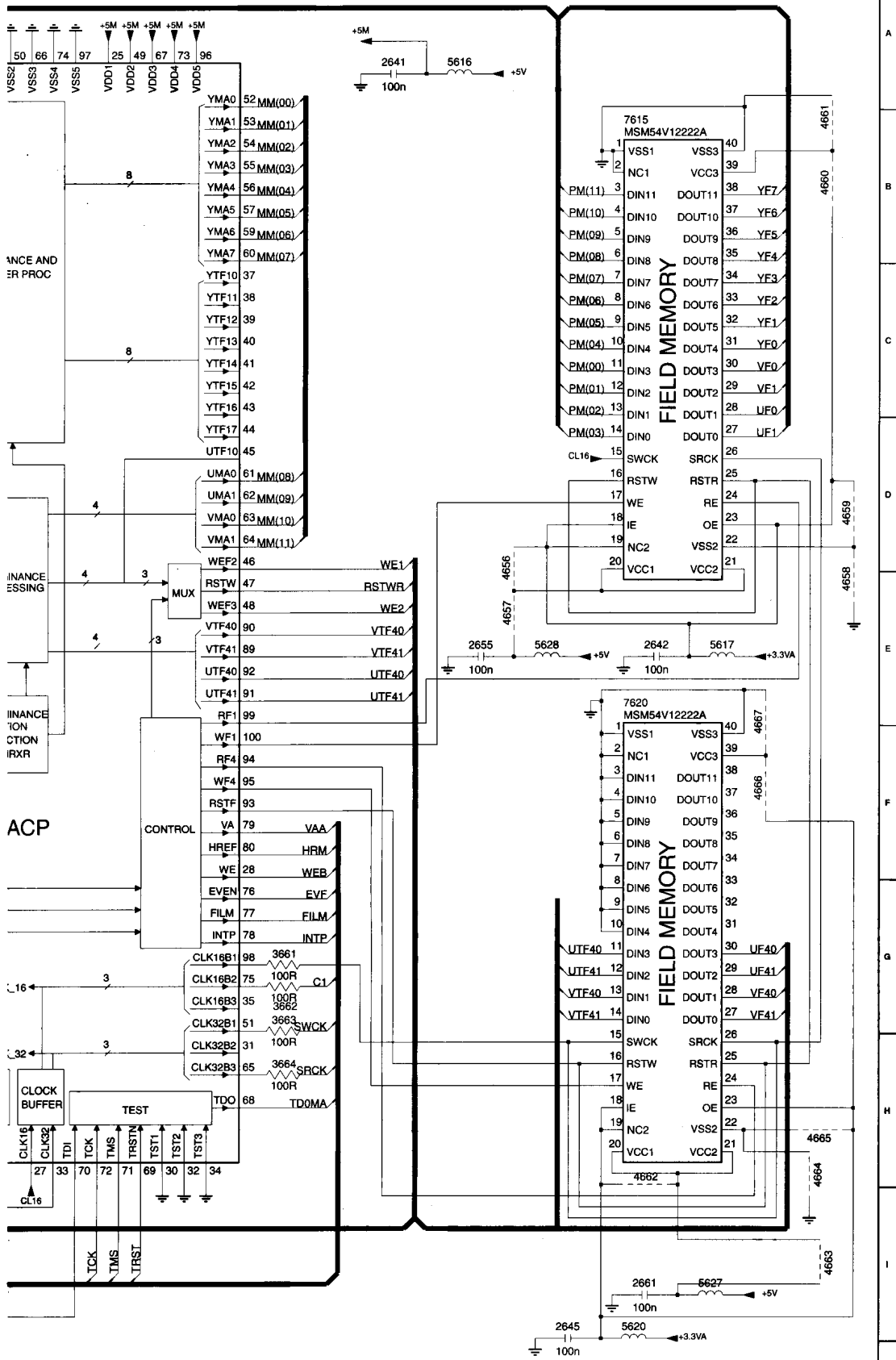
Featurebox

L2

PAL PLUS (FEATURE BOX 6)



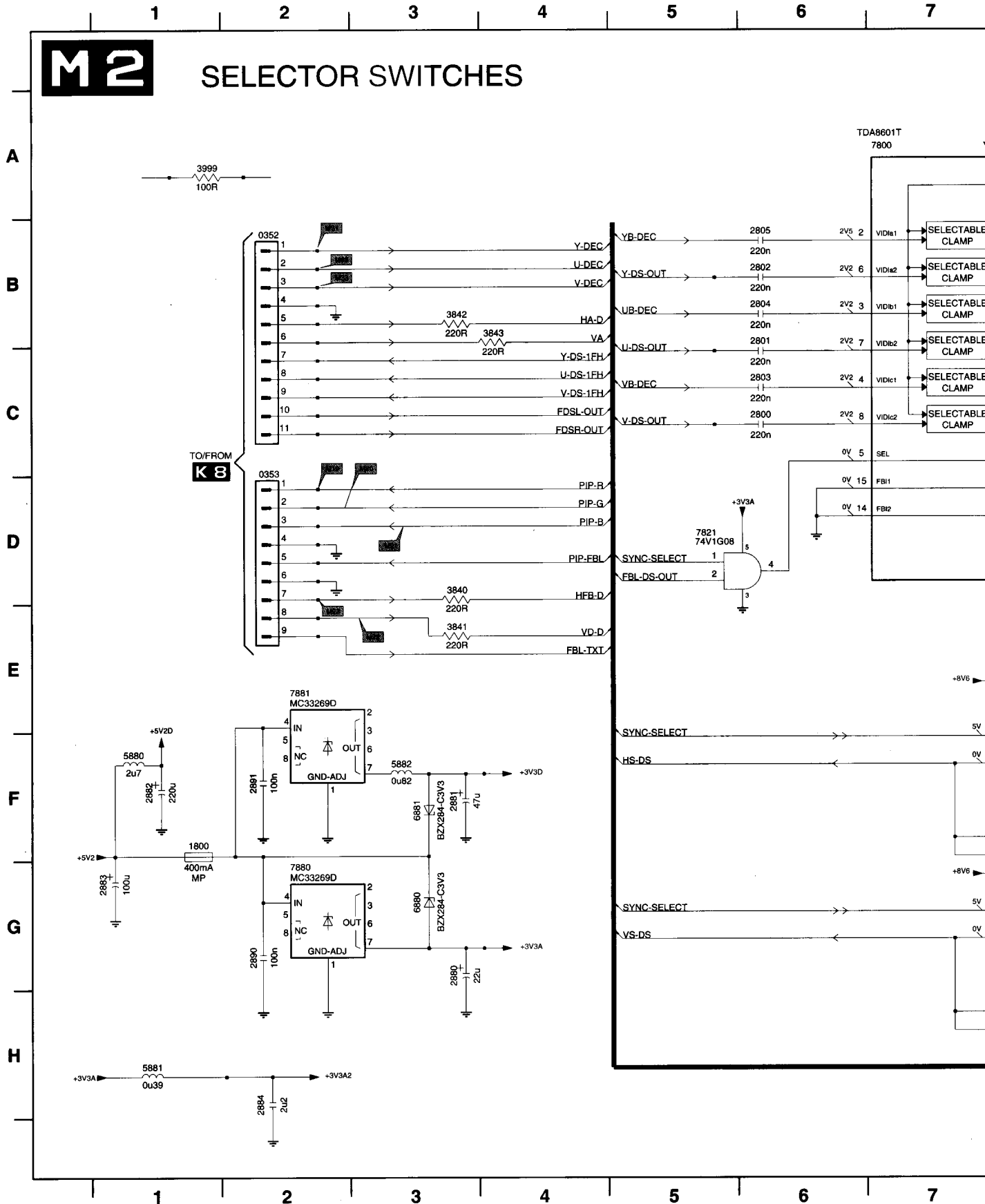
L2



- 2641 A10
- 2642 E12
- 2643 E2
- 2644 E4
- 2645 H12
- 2646 I2
- 2653 E1
- 2655 E11
- 2660 I1
- 2661 H12
- 3661 G10
- 3662 G10
- 3663 G10
- 3664 H10
- 4644 E1
- 4645 E1
- 4646 E2
- 4647 D2
- 4648 B2
- 4649 B2
- 4650 H1
- 4651 I1
- 4652 H2
- 4653 H2
- 4654 F2
- 4655 F2
- 4656 D11
- 4657 E11
- 4658 E13
- 4659 D13
- 4660 B13
- 4661 B13
- 4662 H12
- 4663 H13
- 4664 H13
- 4665 H13
- 4666 F13
- 4667 E13
- 4669 I5
- 4670 I5
- 5616 A11
- 5617 E13
- 5618 E2
- 5619 E4
- 5620 H12
- 5621 I3
- 5622 I8
- 5625 I2
- 5626 E2
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- 5628 E11
- 7614 B1
- 7615 B12
- 7616 A7
- 7619 E1
- 7620 E12
- 7621 F3

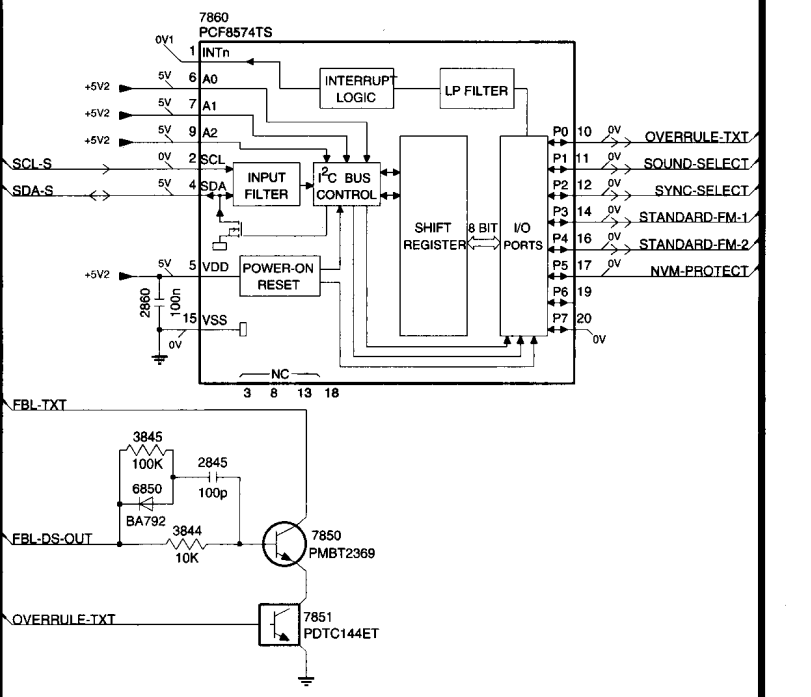
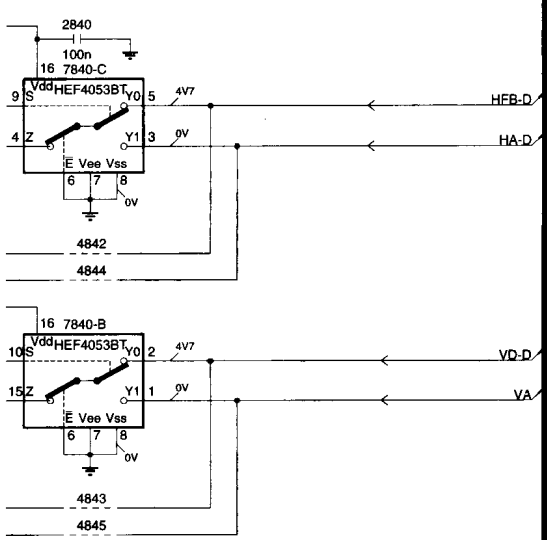
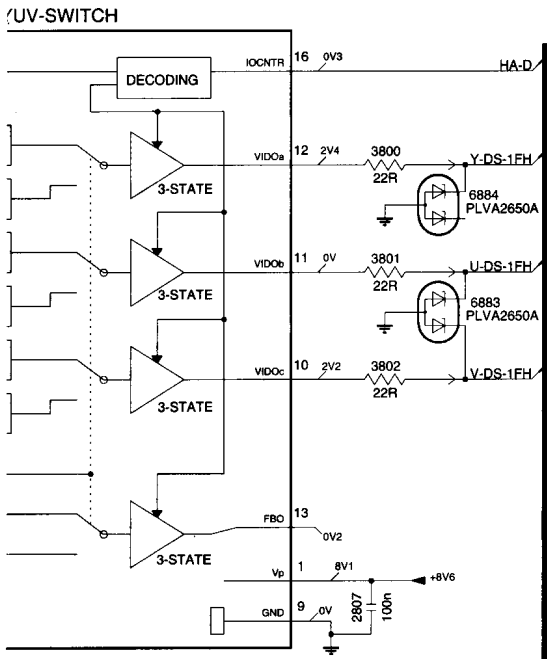
Full dualscreen / PIP module

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| 0352 B2 | 2800 C6 | 2803 C6 | 2807 D9 | 2860 E11 | 2882 F1 | 2890 G2 | 3801 B9 | 3841 E3 | 3844 G11 | 4842 F8 | 4845 H8 | 5882 F3 | 6881 F3 |
| 0353 D2 | 2801 B6 | 2804 B6 | 2840 E8 | 2880 G3 | 2883 G1 | 2891 F2 | 3802 C9 | 3842 B3 | 3845 F11 | 4843 H8 | 5880 F1 | 6850 F11 | 6883 C10 |
| 1800 F1 | 2802 B6 | 2805 B6 | 2845 F11 | 2881 F3 | 2884 H2 | 3800 B9 | 3840 D3 | 3843 B4 | 3999 A1 | 4844 F8 | 5881 H1 | 6880 G3 | 6884 B10 |



7800 A7 7840-C E8 7860 D11
 7821 D5 7850 G12 7880 G2
 7840-B G8 7851 G12 7881 E2

8 9 10 11 12 13 14



M1 ÷ M5

A

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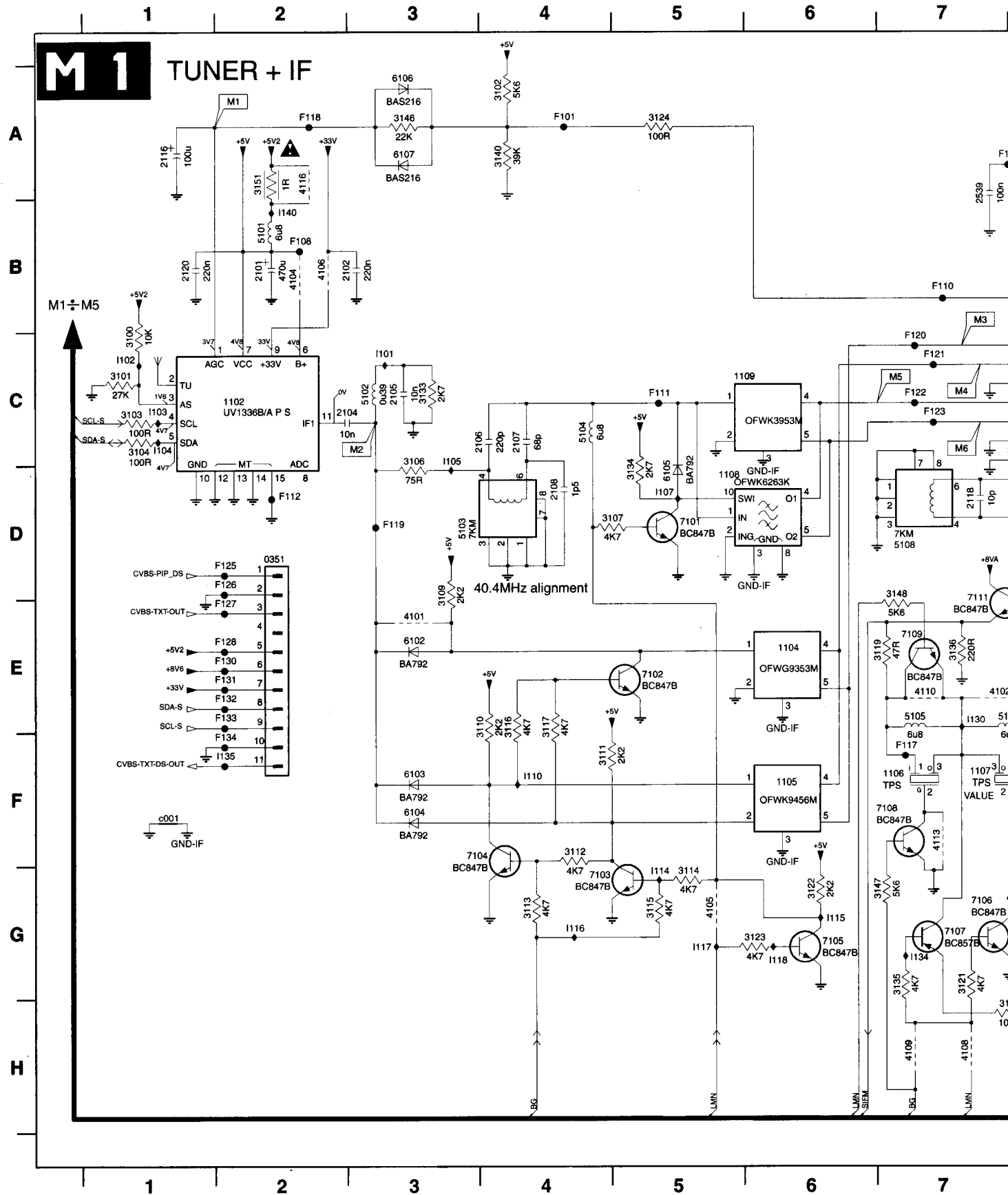
G

H

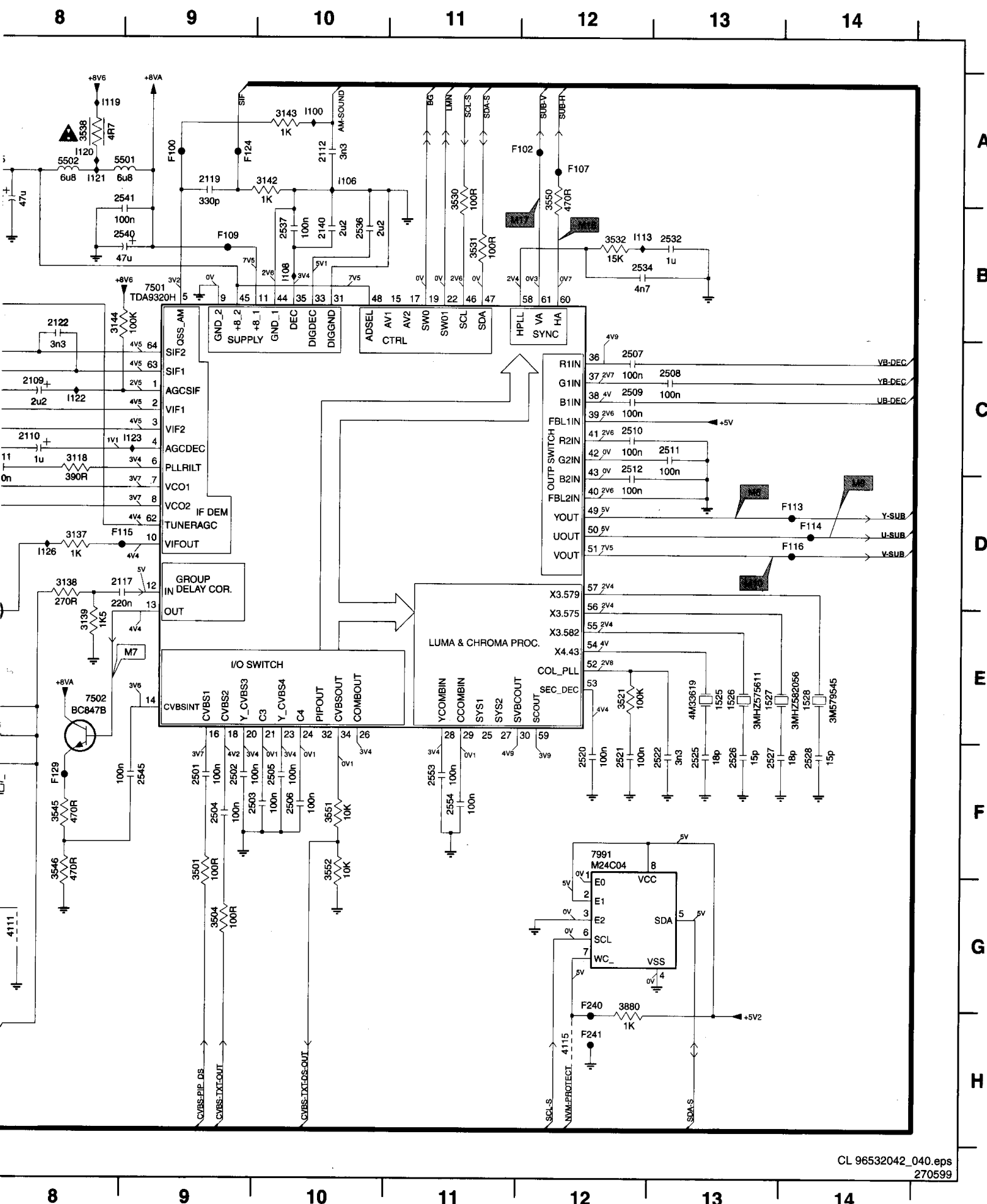
8 9 10 11 12 13 14

Full dualscreen / PIP module

| | | | | | | | | | | | | | | | | | |
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| 0351 D2 | 1109 C5 | 2104 C2 | 2111 C8 | 2122 B8 | 2506 F10 | 2520 F12 | 2532 B13 | 2541 A8 | 3103 C1 | 3112 F4 | 3119 E7 | 3135 G7 | 3143 A10 | 3501 F9 | 3545 F8 | 4102 E7 | 4111 |
| 1102 C2 | 1525 E13 | 2105 C3 | 2112 A10 | 2140 B10 | 2507 C12 | 2521 F12 | 2534 B12 | 2545 F9 | 3104 C1 | 3113 G4 | 3121 G7 | 3136 E7 | 3144 B8 | 3504 G9 | 3546 F8 | 4104 B2 | 4111 |
| 1104 E6 | 1526 E13 | 2106 C4 | 2116 A1 | 2501 F9 | 2508 C13 | 2522 F13 | 2536 B10 | 2553 F11 | 3106 C3 | 3114 G5 | 3122 G6 | 3137 D8 | 3145 H8 | 3521 E12 | 3550 A12 | 4105 G5 | 4111 |
| 1105 F6 | 1527 E13 | 2107 C4 | 2117 D8 | 2502 F9 | 2509 C12 | 2525 F13 | 2537 B10 | 2554 F11 | 3107 D5 | 3115 G5 | 3123 G6 | 3138 D8 | 3146 A3 | 3530 A11 | 3551 F10 | 4106 B2 | 4111 |
| 1106 F7 | 1528 E14 | 2108 D4 | 2118 D7 | 2503 F10 | 2510 C12 | 2526 F13 | 2538 A8 | 3100 C1 | 3109 D3 | 3116 E4 | 3124 A5 | 3139 E8 | 3147 G7 | 3531 B11 | 3552 F10 | 4106 H7 | 510 |
| 1107 F7 | 2101 B2 | 2109 C8 | 2119 A9 | 2504 F9 | 2511 C13 | 2527 F13 | 2539 A7 | 3101 C1 | 3110 E4 | 3117 E4 | 3133 C3 | 3140 A4 | 3148 D7 | 3532 B12 | 3880 G12 | 4109 H7 | 510 |
| 1108 D5 | 2102 B3 | 2110 C8 | 2120 B1 | 2505 F10 | 2512 C12 | 2528 F14 | 2540 B8 | 3102 A4 | 3111 F4 | 3118 C8 | 3134 D5 | 3142 A10 | 3151 A2 | 3538 A8 | 4101 E3 | 4110 E7 | 510 |

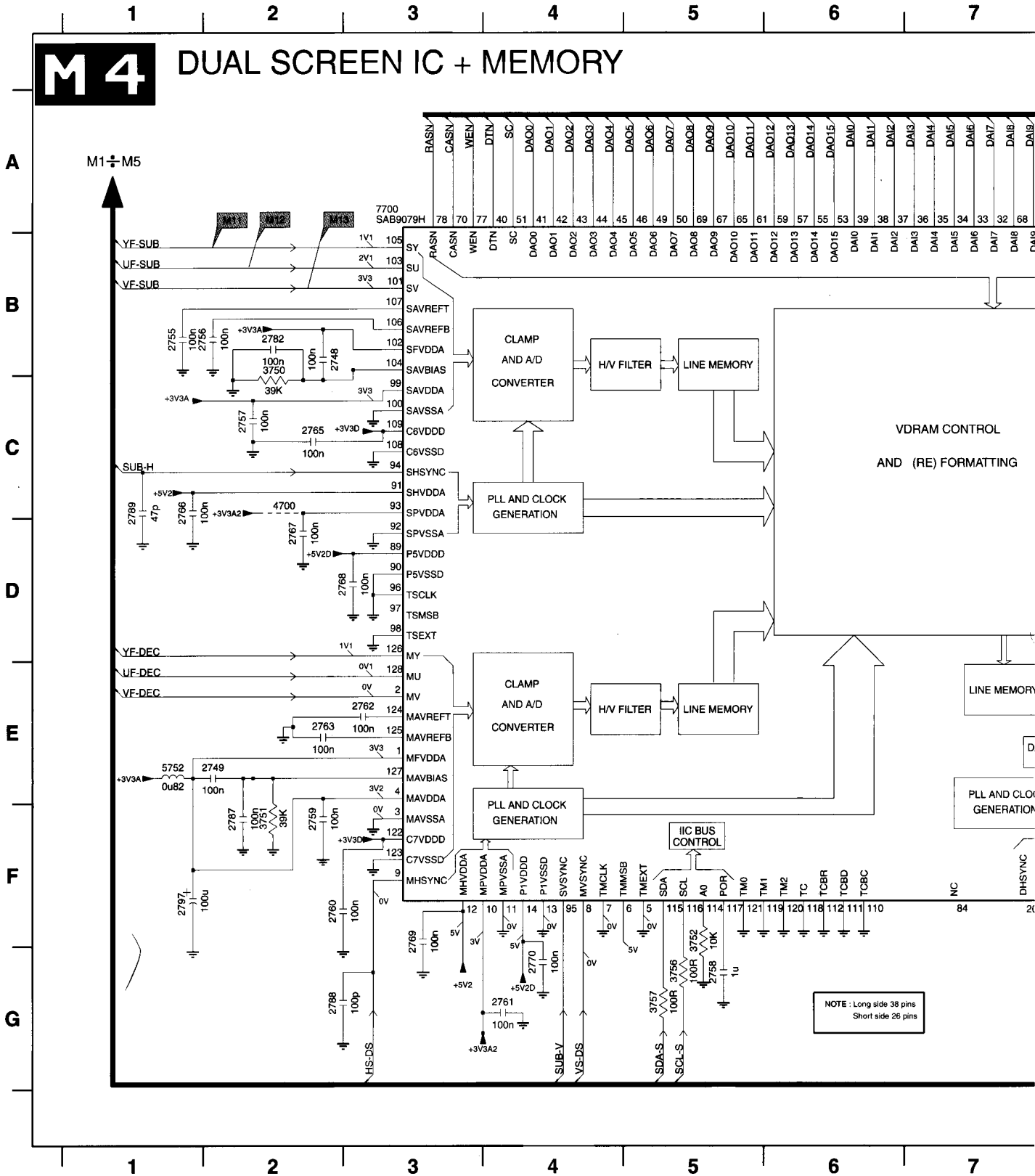


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| H12 | 5106 E7 | 6105 D5 | 7105 G6 | 7502 E8 |
| A2 | 5108 D7 | 6106 A3 | 7106 G7 | 7991 F12 |
| B2 | 5501 A8 | 6107 A3 | 7107 G7 | c001 F1 |
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| D3 | 6102 E3 | 7102 E5 | 7109 E7 | |



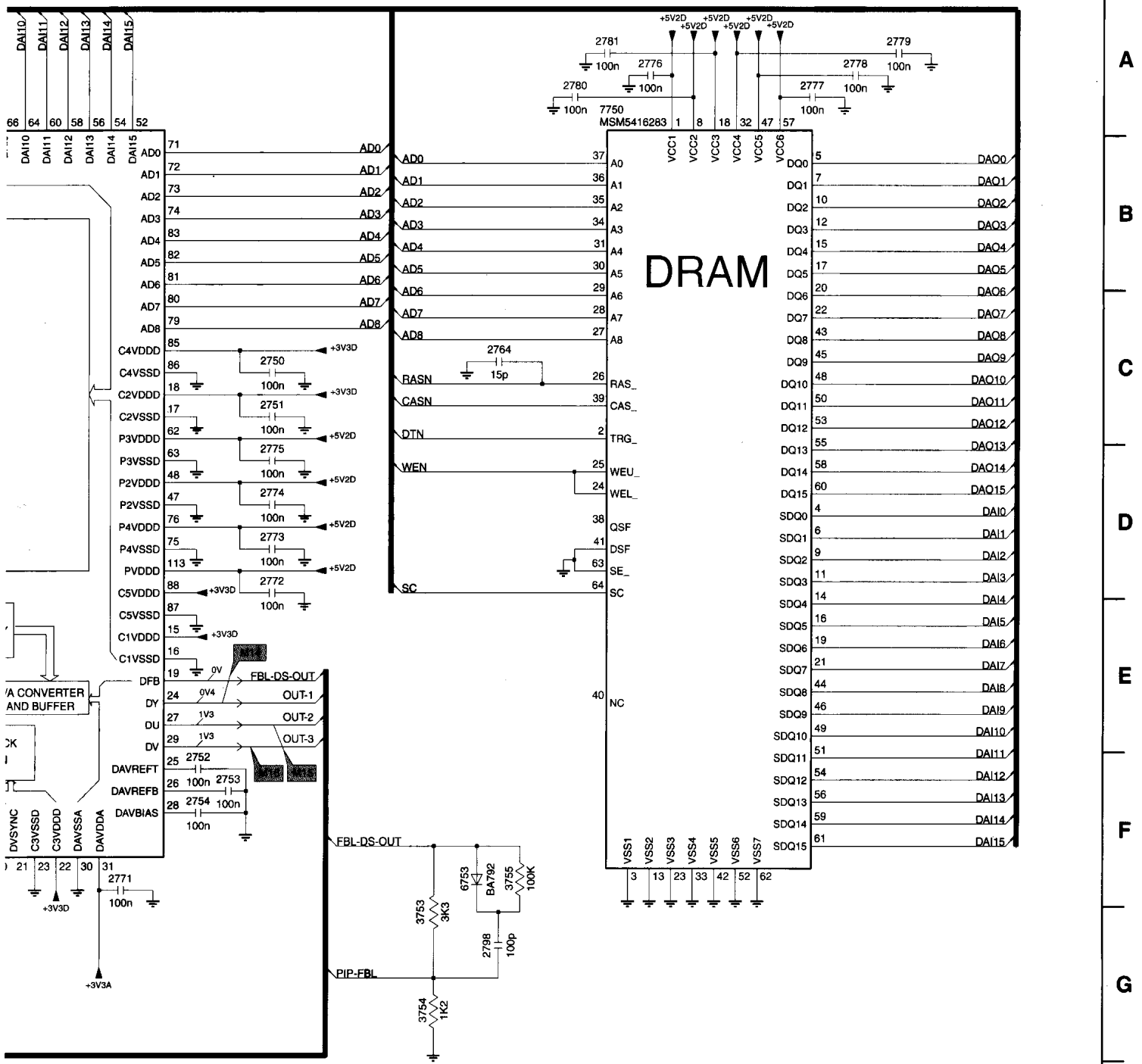
Full dualscreen / PIP module

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| 2748 B2 | 2750 C9 | 2752 F9 | 2754 F9 | 2756 B2 | 2758 G5 | 2760 F2 | 2762 E3 | 2764 C11 | 2766 C1 | 2768 D3 | 2770 G4 | 2772 D9 | 2774 D9 | 2776 A12 | 2778 A13 | 2780 A1 |
| 2749 E2 | 2751 C9 | 2753 F9 | 2755 B1 | 2757 C2 | 2759 F2 | 2761 G4 | 2763 E2 | 2765 C2 | 2767 D2 | 2769 F3 | 2771 F8 | 2773 D9 | 2775 D9 | 2777 A13 | 2779 A13 | 2781 A1 |



1 2782 B2 2788 G2 2797 F1 3750 B2 3752 F5 3754 G10 3756 G5 4700 C2 6753 F11 7750 A11
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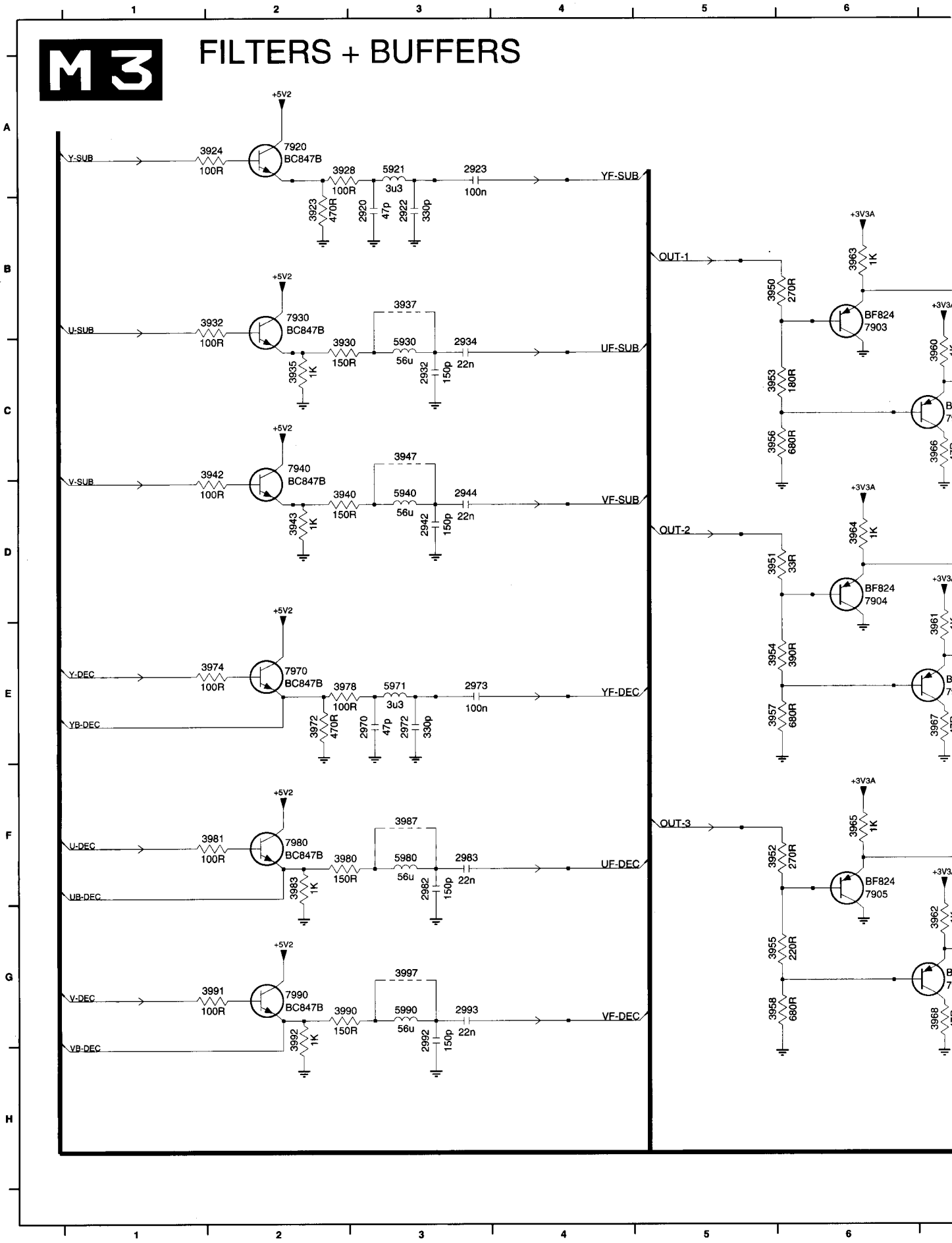
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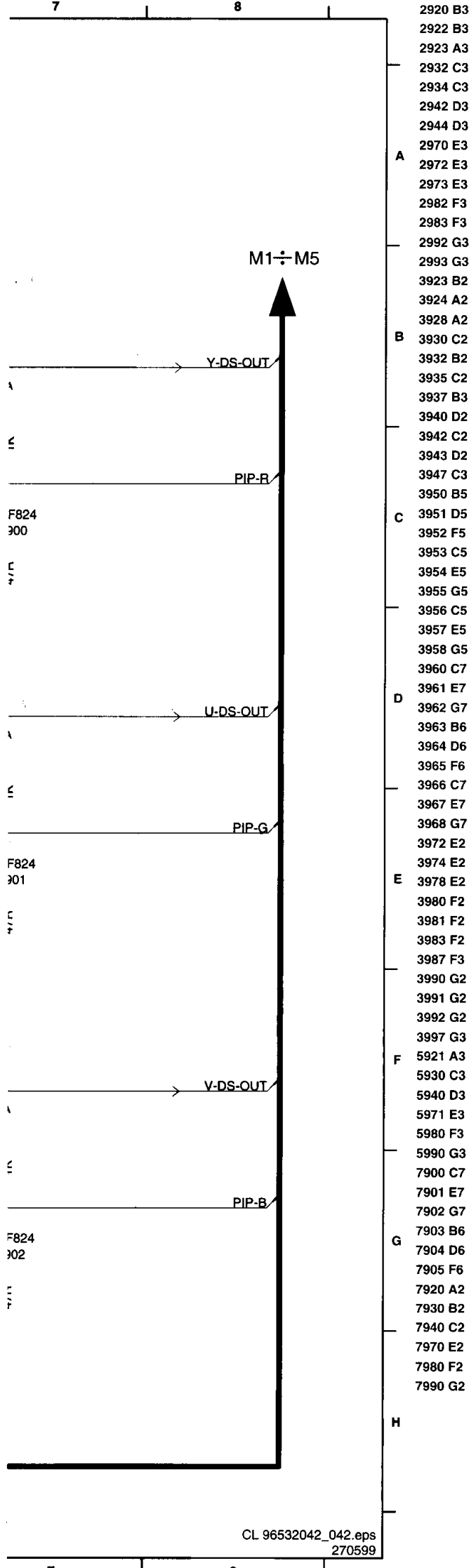


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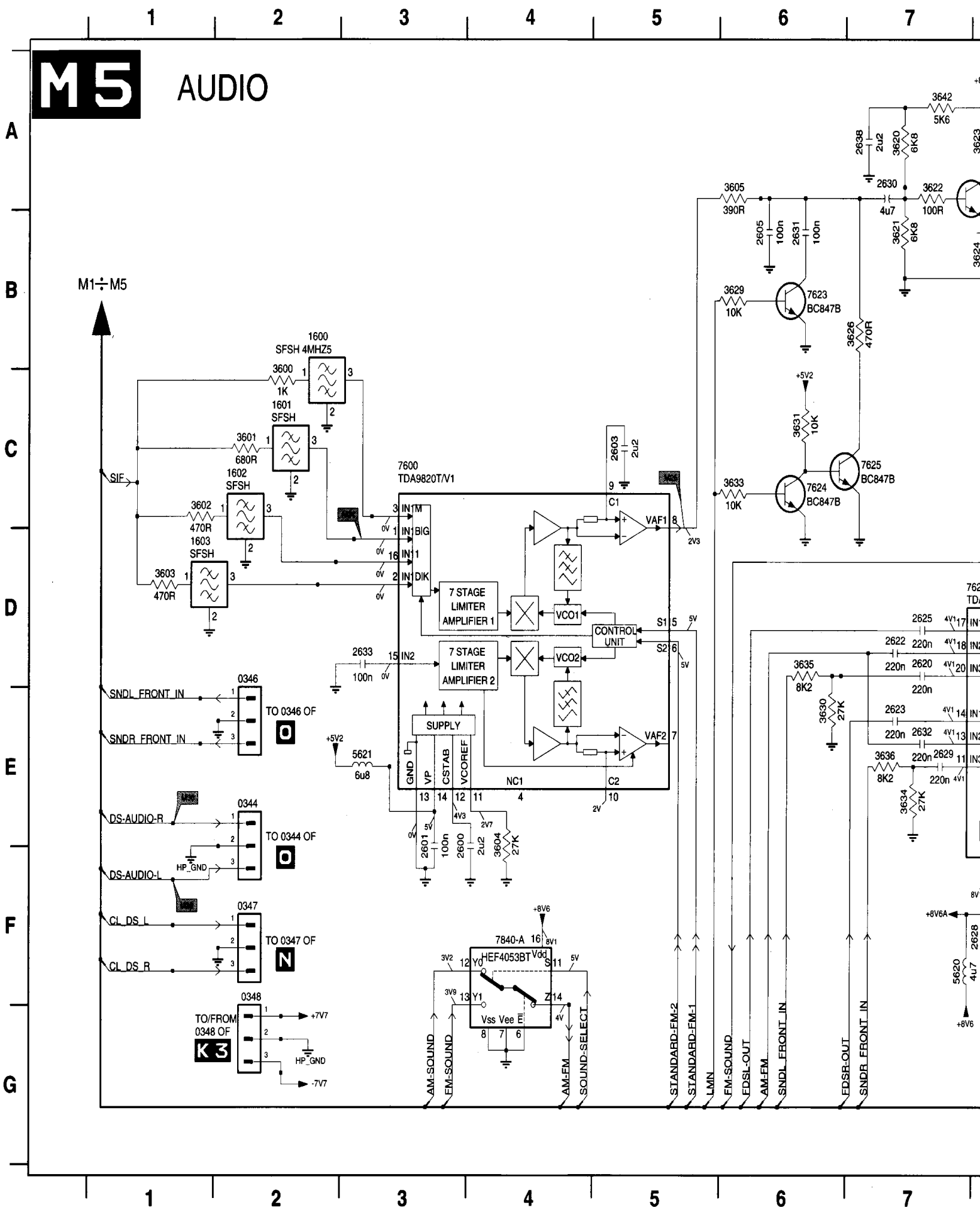
Full dualscreen / PIP module





- 2920 B3
- 2922 B3
- 2923 A3
- 2932 C3
- 2934 C3
- 2942 D3
- 2944 D3
- 2970 E3
- 2972 E3
- 2973 E3
- 2982 F3
- 2983 F3
- 2992 G3
- 2993 G3
- 3923 B2
- 3924 A2
- 3928 A2
- 3930 C2
- 3932 B2
- 3935 C2
- 3937 B3
- 3940 D2
- 3942 C2
- 3943 D2
- 3947 C3
- 3950 B5
- 3951 D5
- 3952 F5
- 3953 C5
- 3954 E5
- 3955 G5
- 3956 C5
- 3957 E5
- 3958 G5
- 3960 C7
- 3961 E7
- 3962 G7
- 3963 B6
- 3964 D6
- 3965 F6
- 3966 C7
- 3967 E7
- 3968 G7
- 3972 E2
- 3974 E2
- 3978 E2
- 3980 F2
- 3981 F2
- 3983 F2
- 3987 F3
- 3990 G2
- 3991 G2
- 3992 G2
- 3997 G3
- 5921 A3
- 5930 C3
- 5940 D3
- 5971 E3
- 5980 F3
- 5990 G3
- 7900 C7
- 7901 E7
- 7902 G7
- 7903 B6
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- 7905 F6
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- 7930 B2
- 7940 C2
- 7970 E2
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- 7990 G2

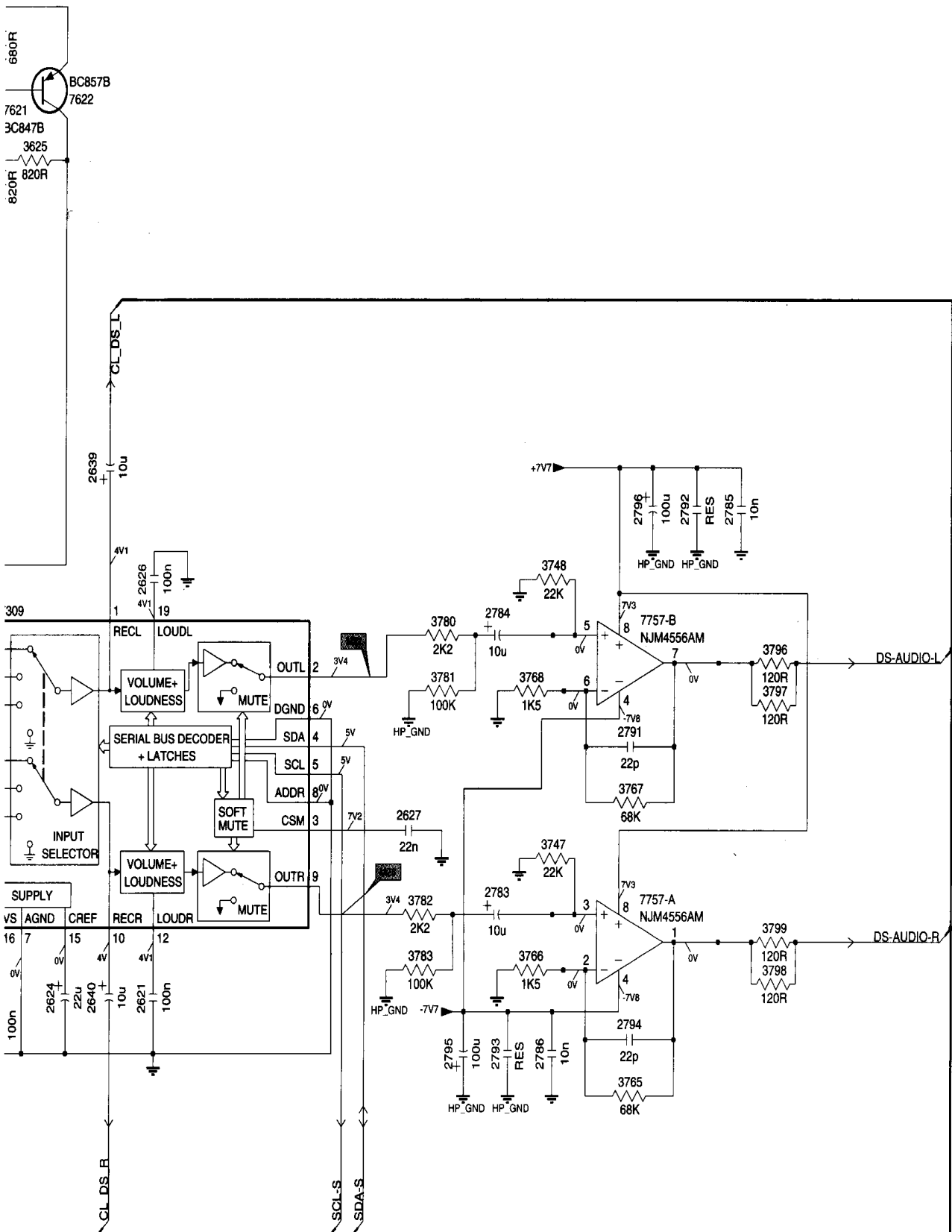
Full dualscreen / PIP module



8 9 10 11 12 13

7840-A F4

3A



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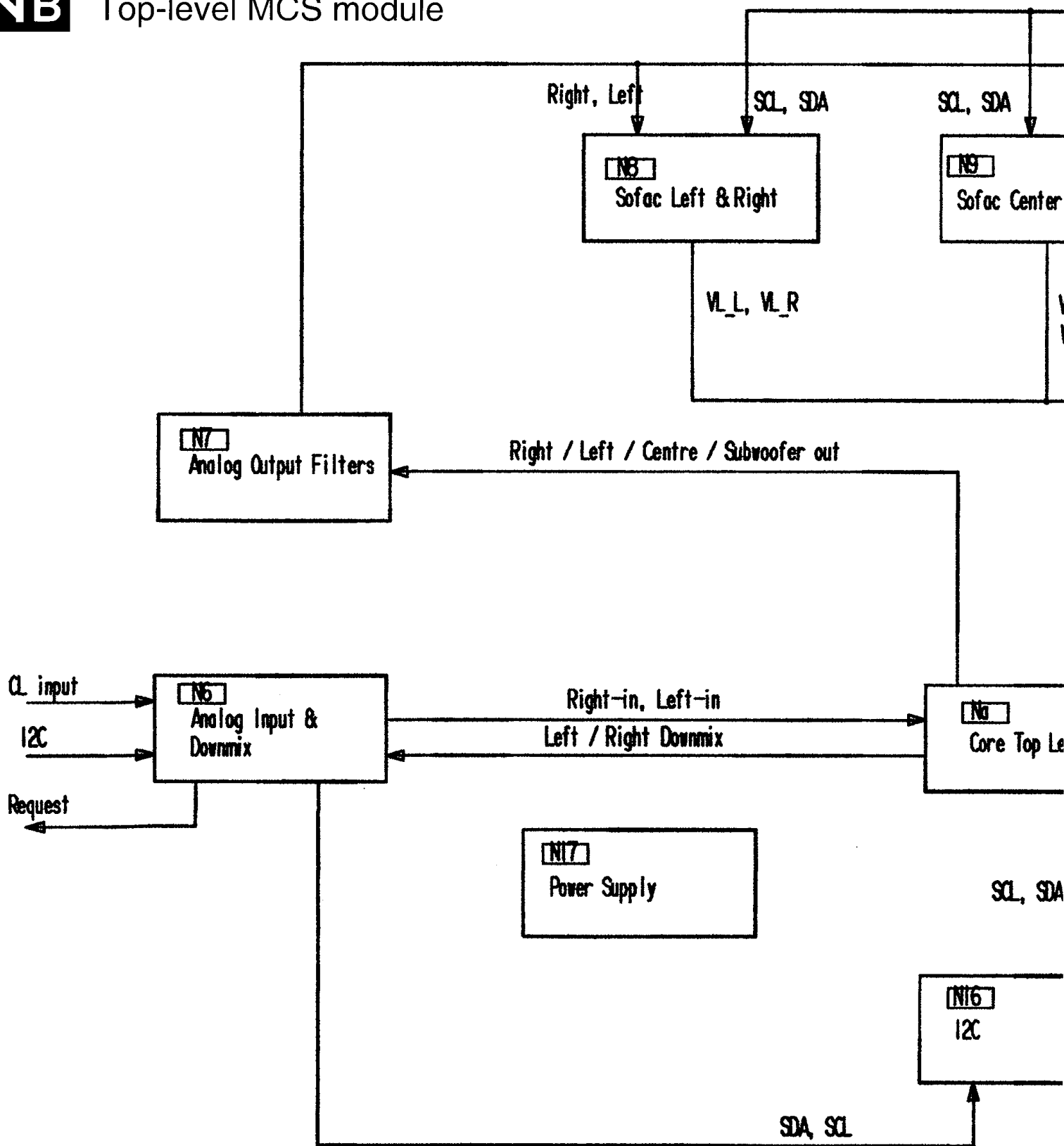
- 0344 E2
- 0346 D2
- 0347 F2
- 0348 F2
- 1600 B2
- 1601 C2
- 1602 C2
- 1603 D1
- 2600 E3
- 2601 E3
- 2603 C5
- 2605 B6
- 2620 D7
- 2621 F9
- 2622 D7
- 2623 E7
- 2624 F8
- 2625 D7
- 2626 D9
- 2627 E10
- 2628 F8
- 2629 E7
- 2630 A7
- 2631 B6
- 2632 E7
- 2633 D3
- 2783 E11
- 2784 D11
- 2785 C12
- 2786 F11
- 2791 E12
- 2792 C12
- 2793 F11
- 2794 F12
- 2795 F11
- 2796 C12
- 2XXX A7
- 2XXX C8
- 2XXX F8
- 3600 C2
- 3601 C2
- 3602 C1
- 3603 D1
- 3604 E4
- 3605 A6
- 3620 A7
- 3621 B7
- 3622 A7
- 3623 A8
- 3624 B8
- 3625 B8
- 3626 B7
- 3629 B6
- 3630 E6
- 3631 C6
- 3633 C6
- 3634 E7
- 3635 D6
- 3636 E7
- 3747 E11
- 3748 D11
- 3765 F12
- 3766 F11
- 3767 E12
- 3768 D11
- 3796 D13
- 3797 D13
- 3798 F13
- 3799 F13
- 3XXX D10
- 3XXX D10
- 3XXX E10
- 3XXX F10
- 5620 F7
- 5621 E3
- 7600 C3
- 7620 D7
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- 7622 A8
- 7623 B6
- 7624 C6
- 7625 C7
- 7757-A E12
- 7757-B D12

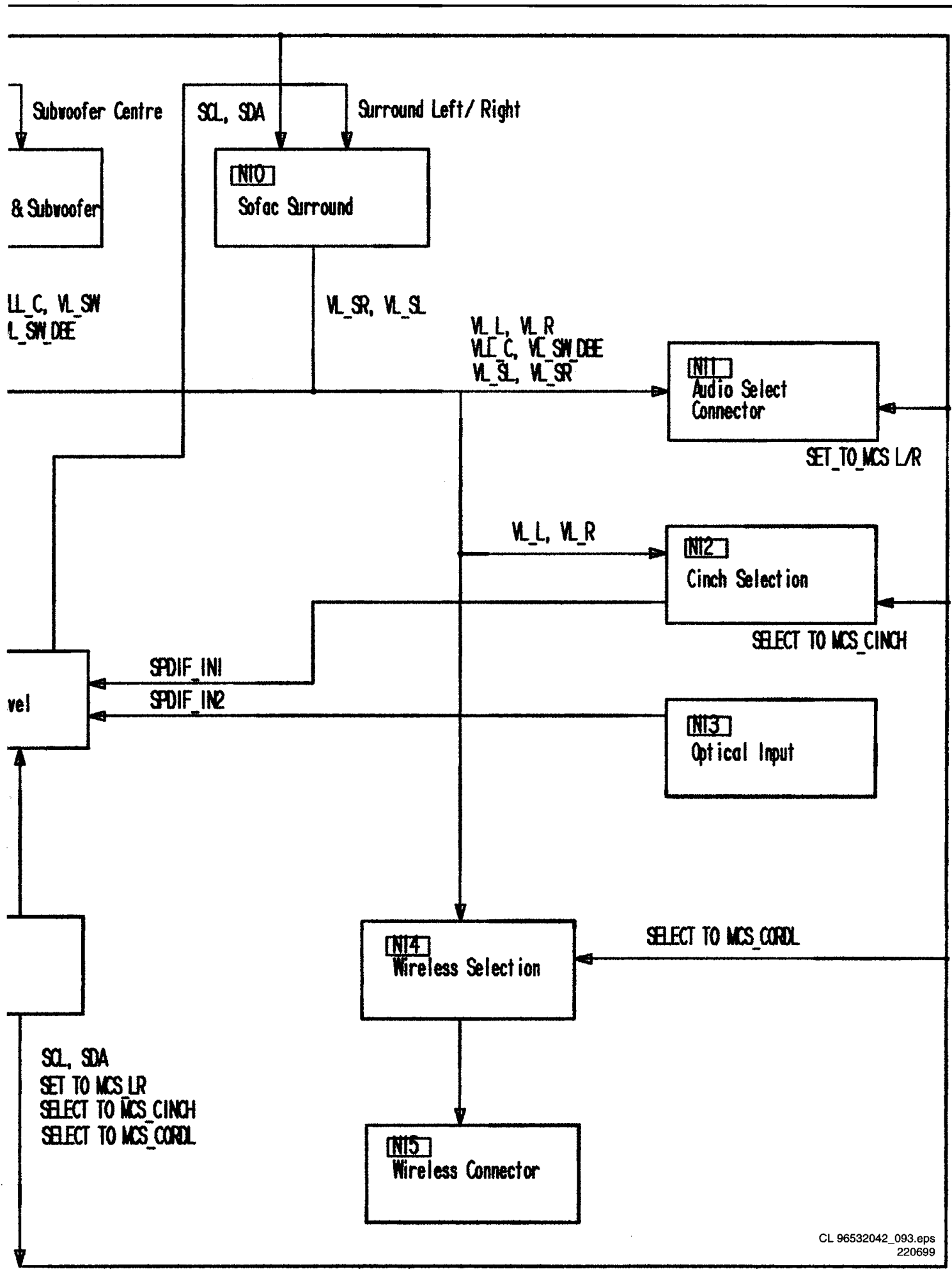
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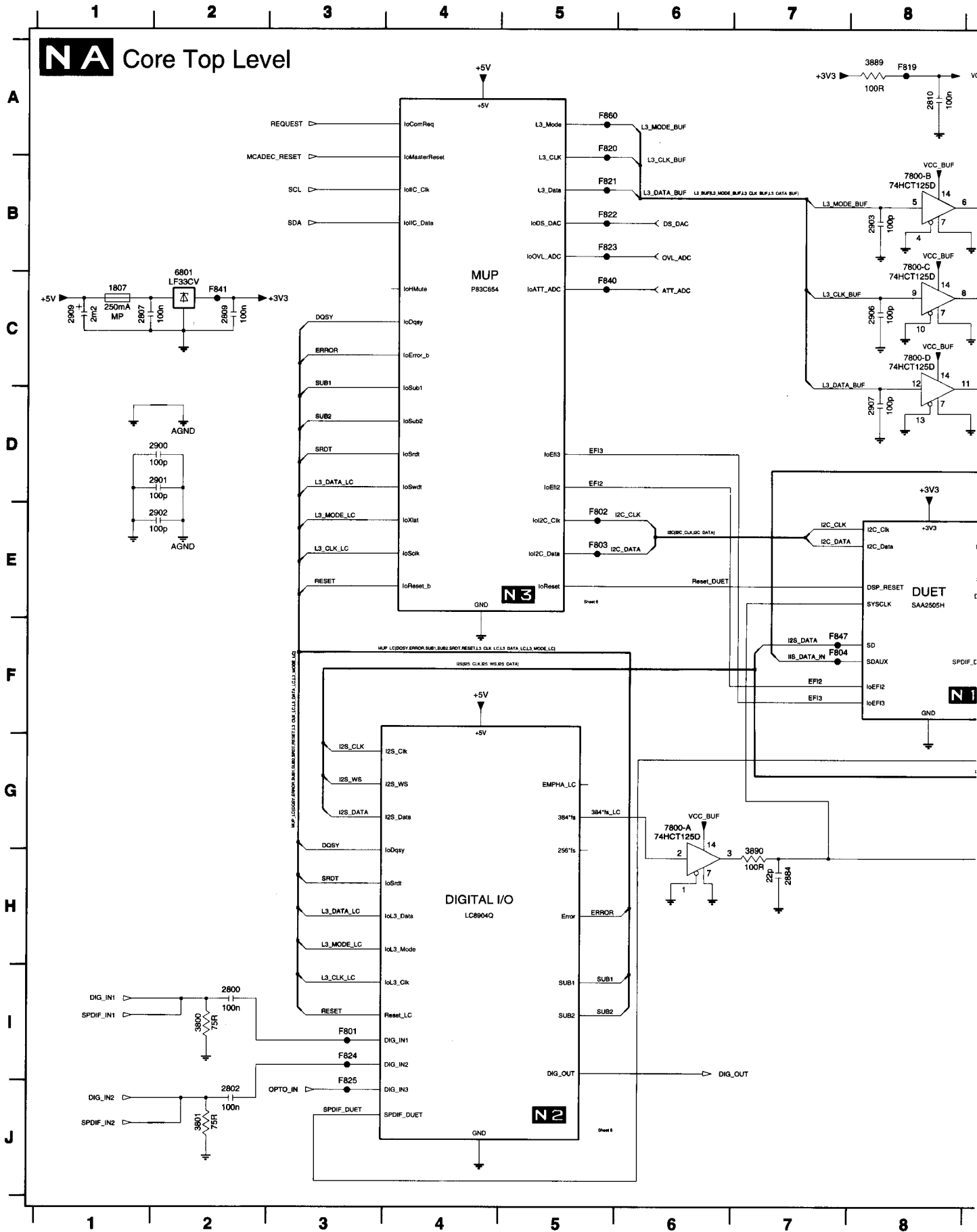
Multi-channel sound module

NB Top-level MCS module



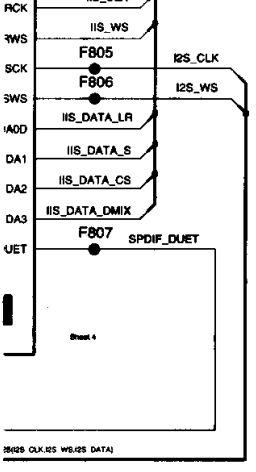
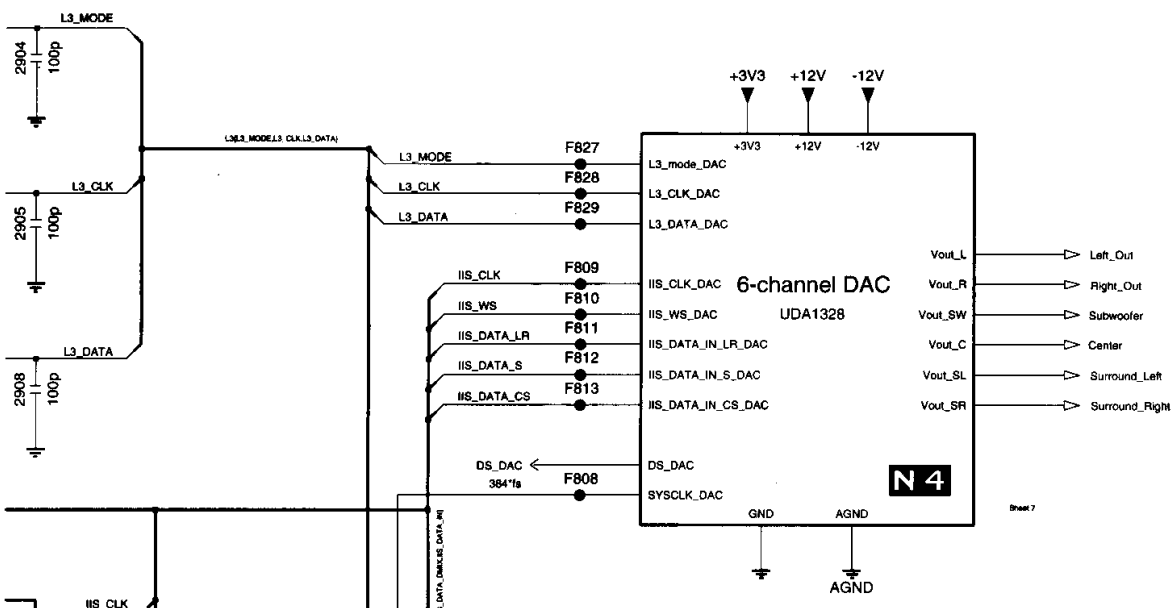


Multi-channel sound module

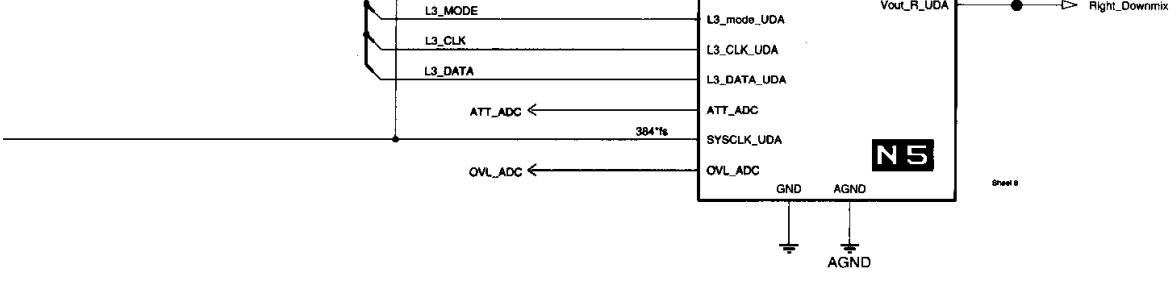


C_BUF

Note: +12V = 12VP - IN (N17)
 -12V = 12VN - IN (N17)
 +5V = 5V - IN (N17)

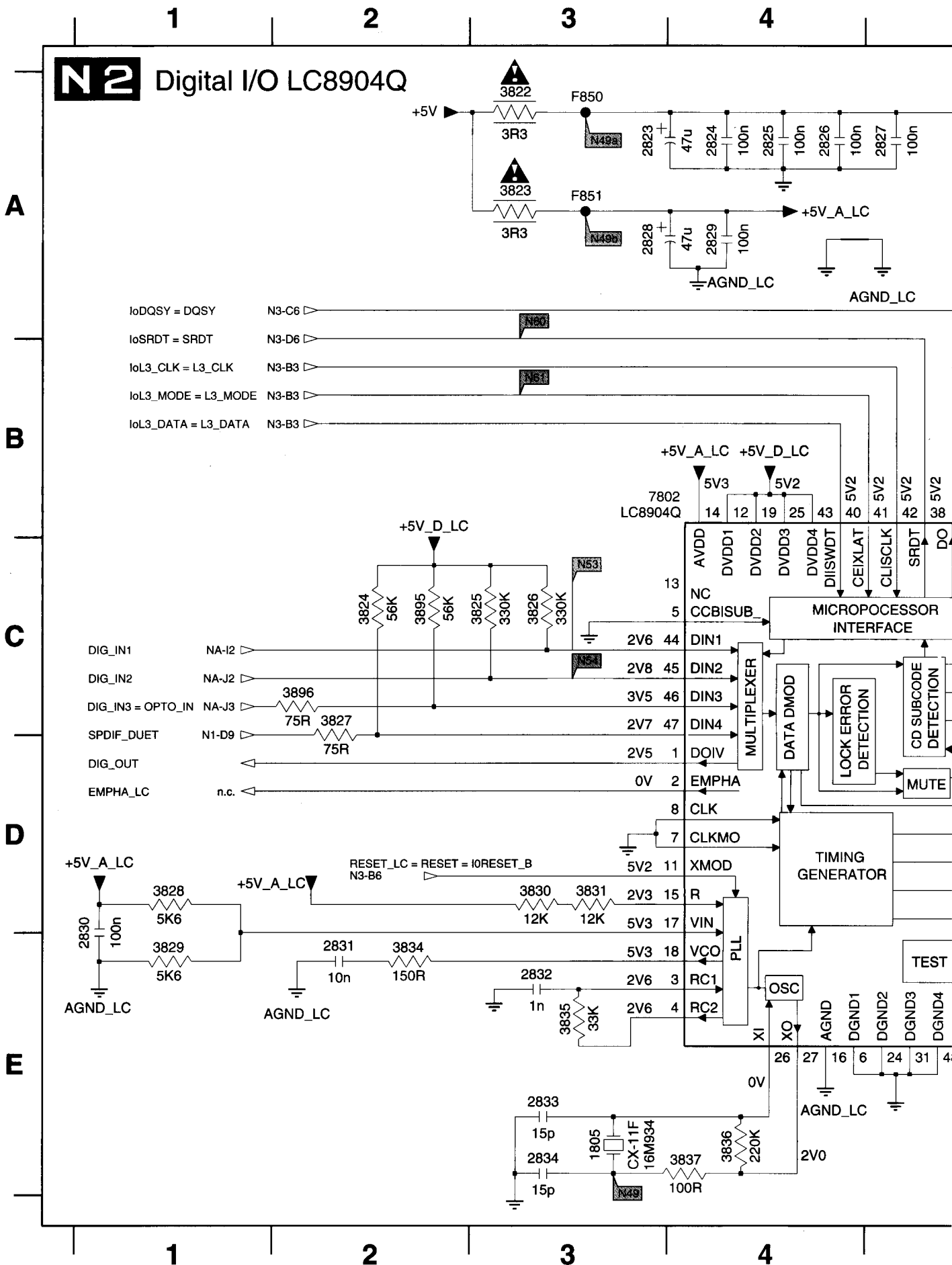


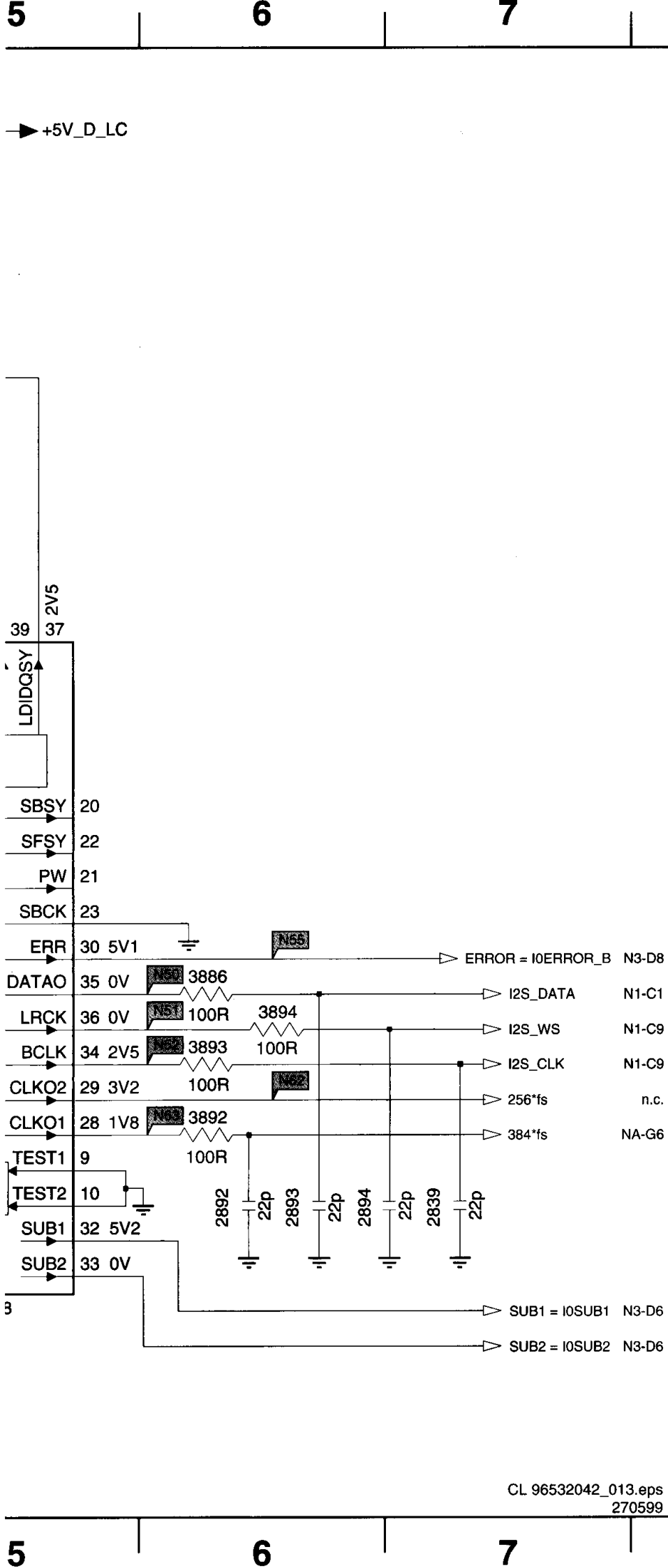
384FS CLK/RS WS/2S DATA



- 2800 I2
- 2802 J2
- 2807 C1
- 2809 C2
- 2810 A8
- 2884 H7
- 2900 D2
- 2901 D2
- 2902 E2
- 2903 B8
- 2904 B9
- 2905 C9
- 2906 C8
- 2907 D8
- 2908 D9
- 2909 C1
- 3800 I2
- 3801 J2
- 3889 A8
- 3890 H7
- 6801 C2
- 7800-A G6
- 7800-B B8
- 7800-C B8
- 7800-D C8
- F801 I3
- F802 E5
- F803 E5
- F804 F7
- F805 E9
- F806 E9
- F807 F9
- F808 D11
- F809 C11
- F810 C11
- F811 C11
- F812 D11
- F813 D11
- F814 F11
- F819 A8
- F820 A5
- F821 B5
- F822 B5
- F823 B5
- F824 I3
- F825 J3
- F827 C11
- F828 C11
- F829 C11
- F836 G11
- F837 G11
- F838 G13
- F839 G13
- F840 C5
- F841 A2
- F847 F7
- F860 A5

Multi-channel sound module





- 1805 E3
- 2823 A3
- 2824 A4
- 2825 A4
- 2826 A4
- 2827 A5
- 2828 A3
- 2829 A4
- 2830 D1
- 2831 E2
- 2832 E3
- 2833 E3
- 2834 E3
- 2839 E7
- 2892 E6
- 2893 E6
- 2894 E6
- 3822 A3
- 3823 A3
- 3824 C2
- 3825 C3
- 3826 C3
- 3827 C2
- 3828 D1
- 3829 E1
- 3830 D3
- 3831 D3
- 3834 E2
- 3835 E3
- 3836 E4
- 3837 E4
- 3886 D6
- 3892 D6
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- 3894 D6
- 3895 C3
- 3896 C2
- 7802 B3
- F850 A2
- F851 A2

A

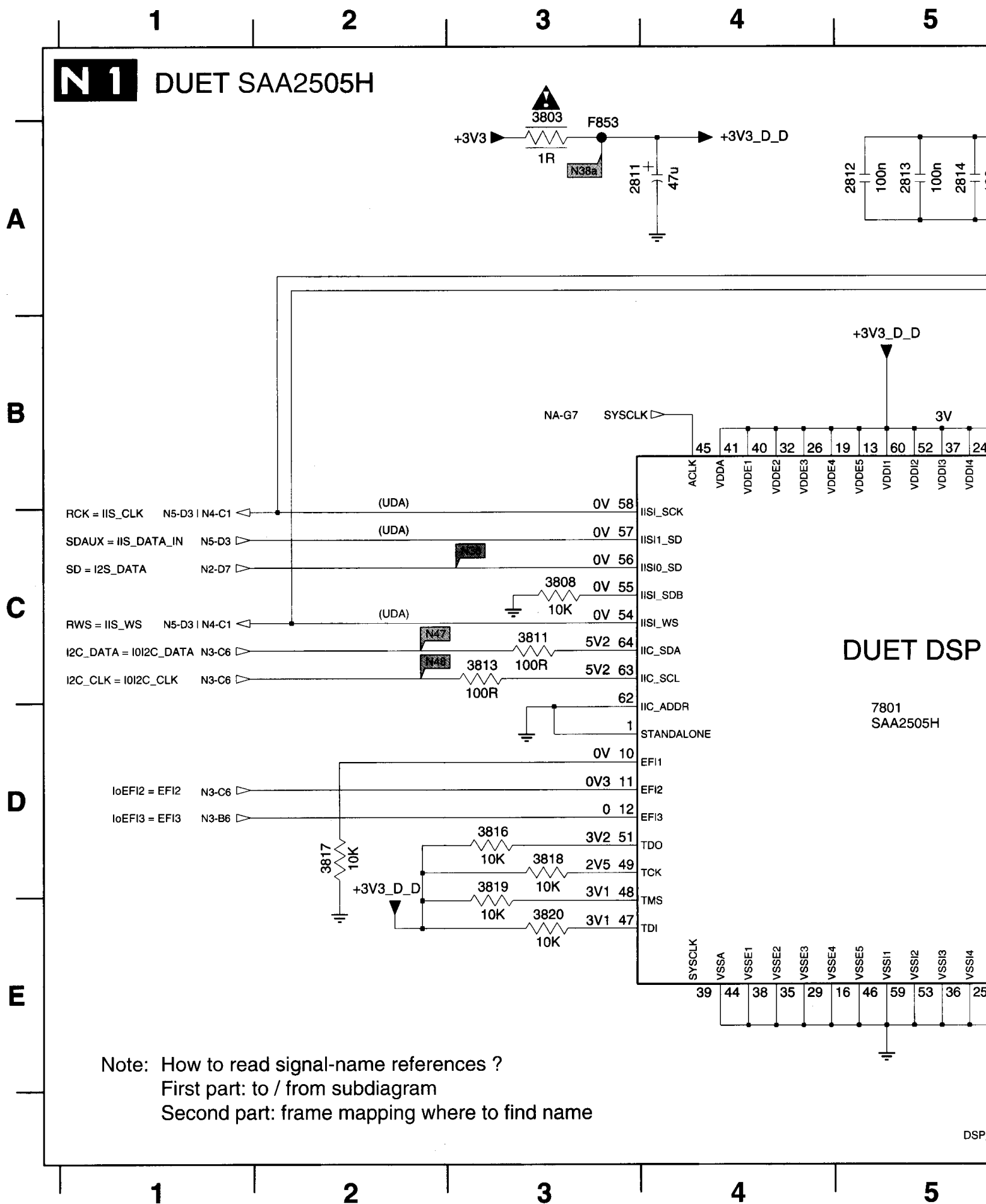
B

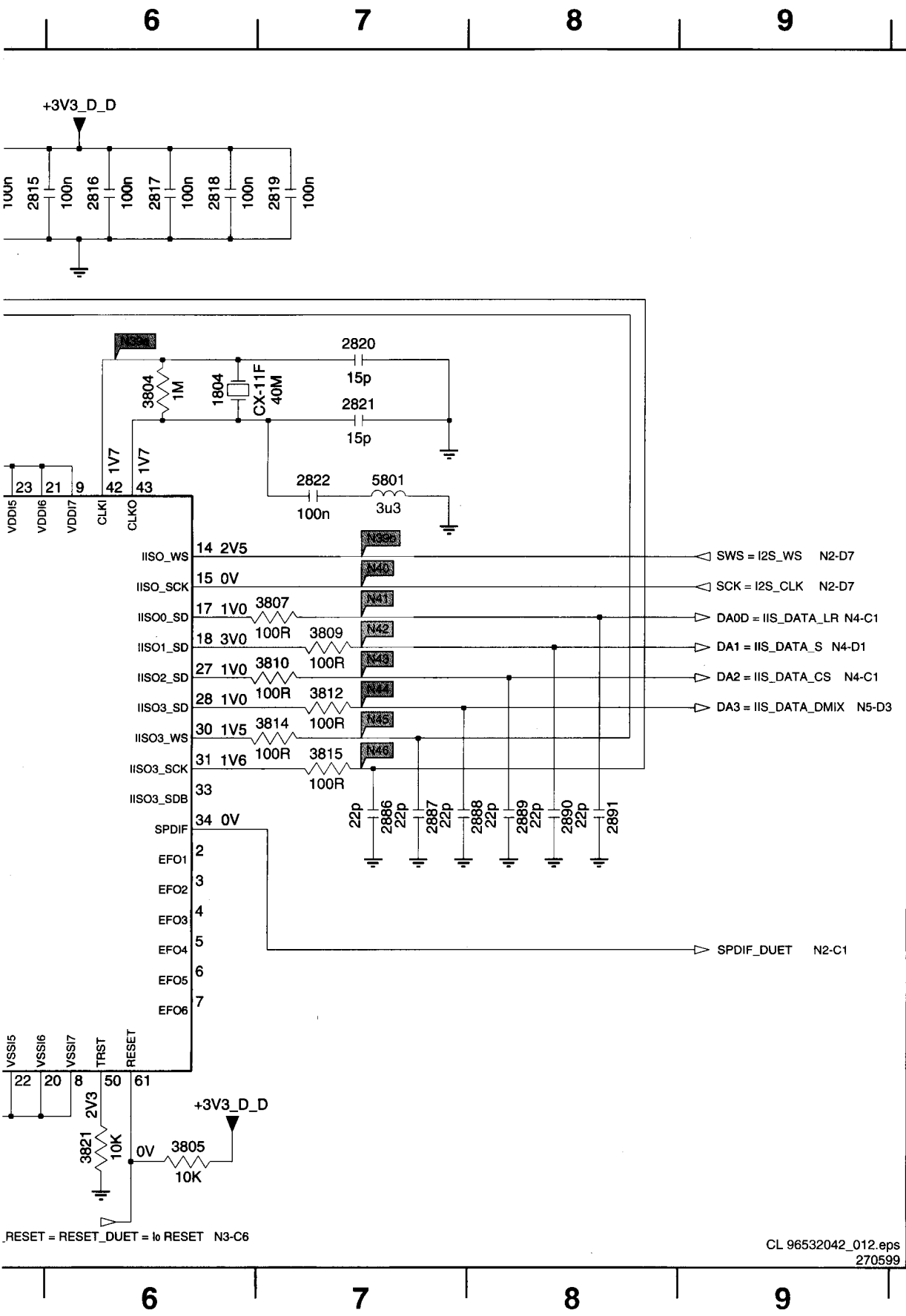
C

D

E

Multi-channel sound module

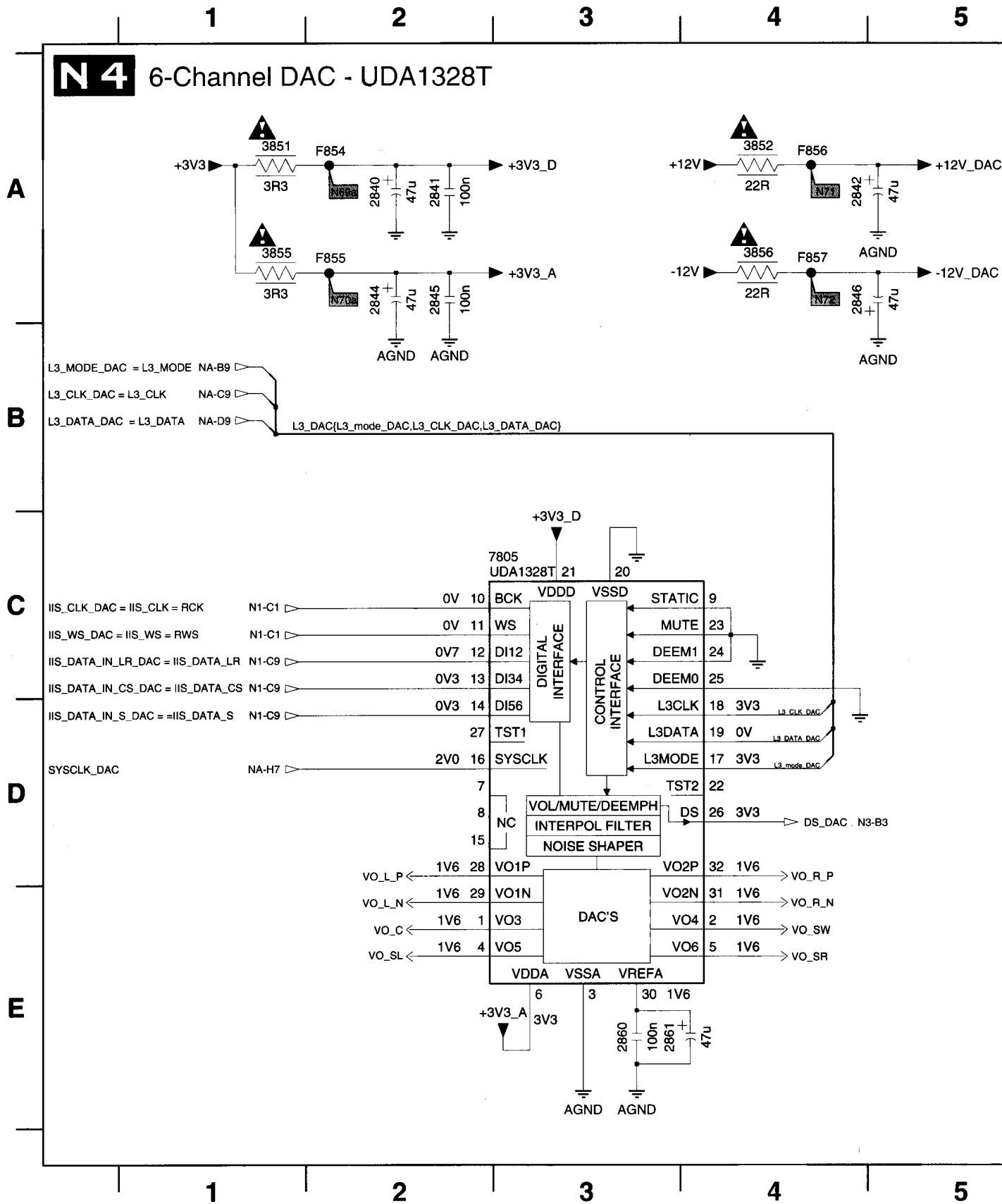


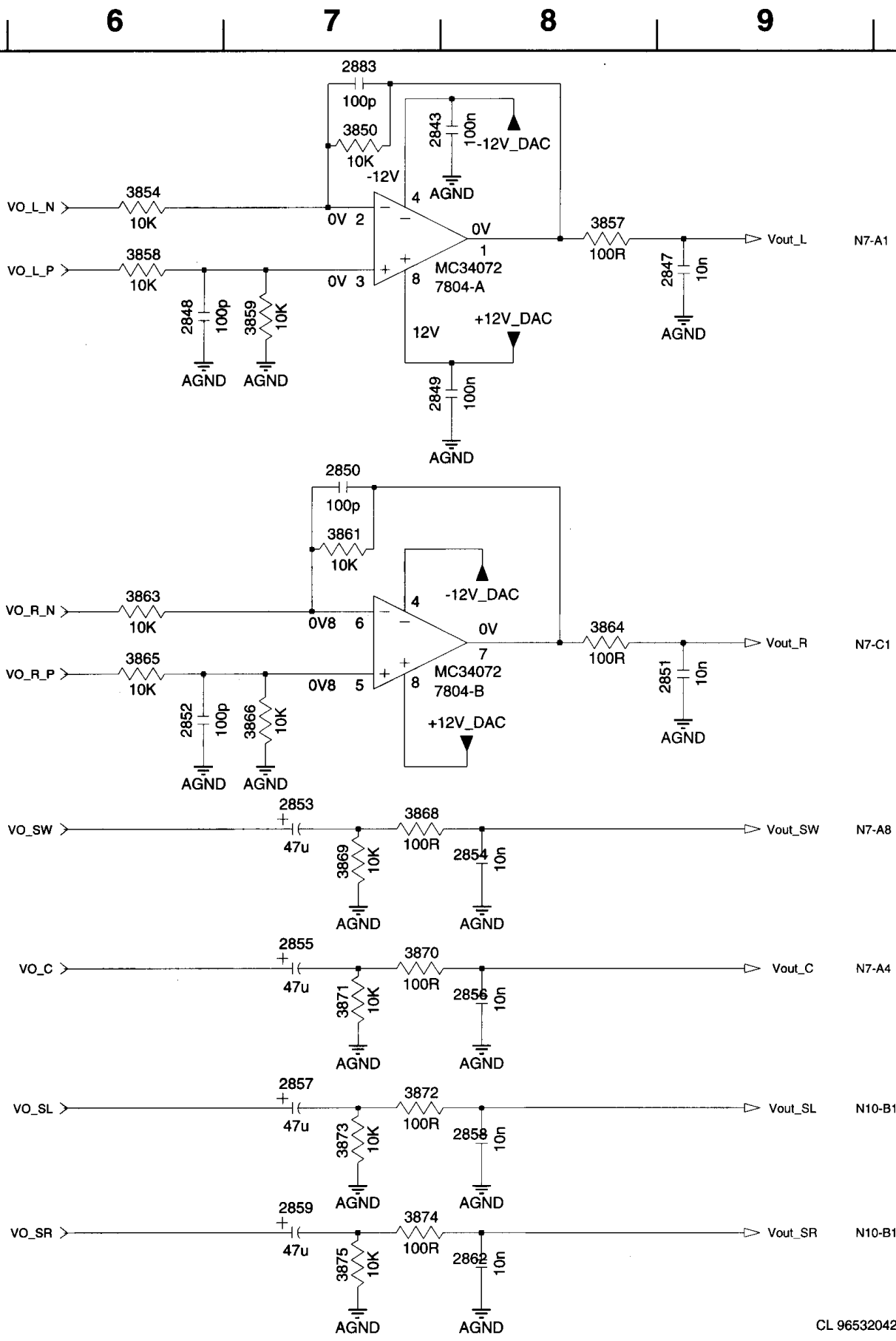


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- 2811 A4
- 2812 A5
- 2813 A5
- 2814 A5
- 2815 A5
- 2816 A6
- 2817 A6
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- 2819 A7
- 2820 B7
- 2821 B7
- 2822 B7
- 2886 D7
- 2887 D7
- 2888 D8
- 2889 D8
- 2890 D8
- 2891 D8
- 3803 A3
- 3804 B6
- 3805 E6
- 3807 C7
- 3808 C3
- 3809 C7
- 3810 C7
- 3811 C3
- 3812 C7
- 3813 C3
- 3814 C7
- 3815 C7
- 3816 D3
- 3817 D2
- 3818 D3
- 3819 D3
- 3820 E3
- 3821 E6
- 5801 B7
- 7801 D5
- F853 A1

._RESET = RESET_DUET = to RESET N3-C6

Multi-channel sound module

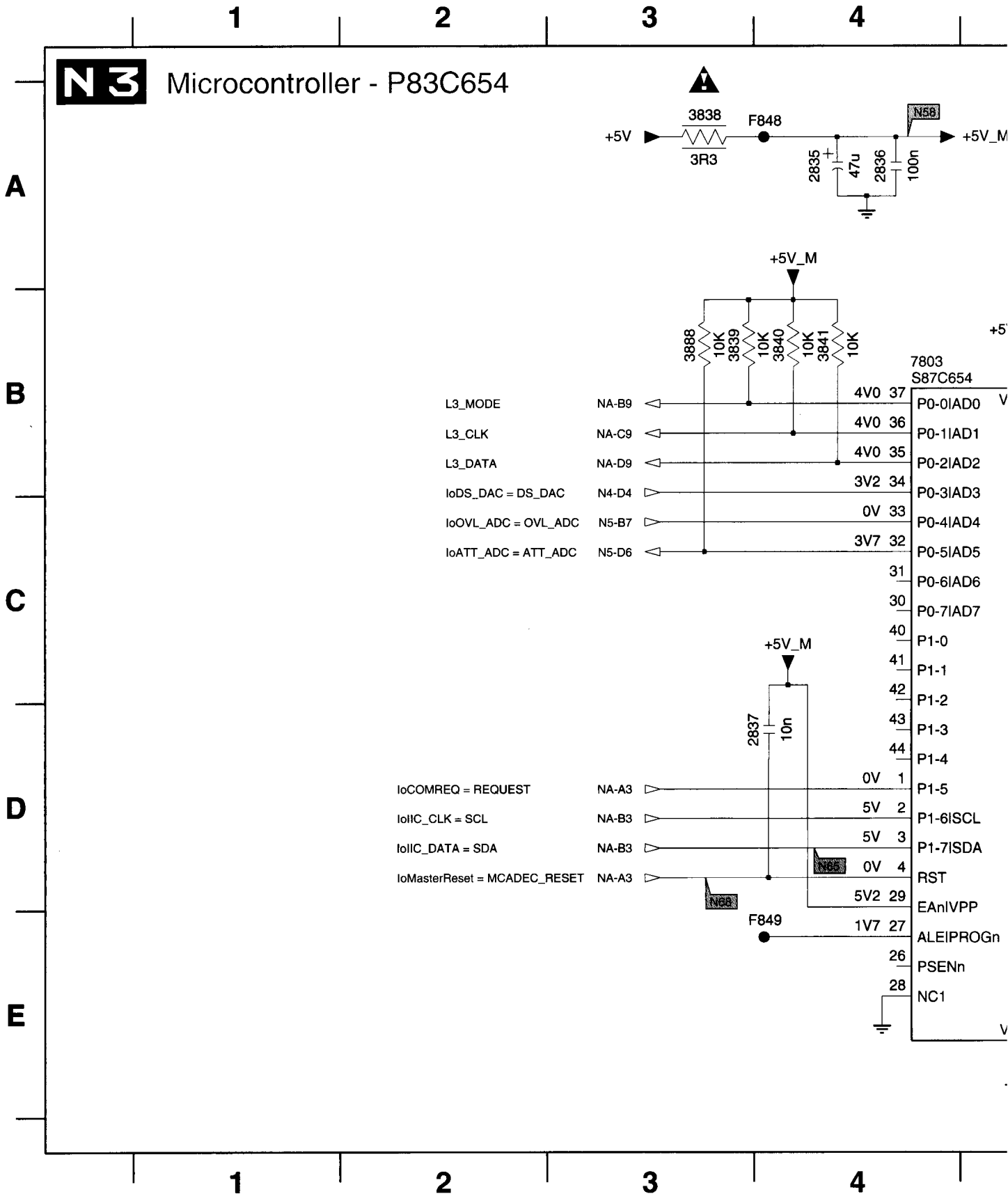




A
B
C
D
E

- 2840 A2
- 2841 A2
- 2842 A4
- 2843 A7
- 2844 A2
- 2845 A2
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- 2847 A9
- 2848 A6
- 2849 B7
- 2850 B7
- 2851 C9
- 2852 C6
- 2853 D7
- 2854 D8
- 2855 D7
- 2856 D8
- 2857 E7
- 2858 E8
- 2859 E7
- 2860 E3
- 2861 E3
- 2862 E8
- 2883 A7
- 3850 A7
- 3851 A1
- 3852 A4
- 3854 A6
- 3855 A1
- 3856 A4
- 3857 A8
- 3858 A6
- 3859 A7
- 3861 B7
- 3863 C6
- 3864 C8
- 3865 C6
- 3866 C7
- 3868 D7
- 3869 D7
- 3870 D7
- 3871 D7
- 3872 E7
- 3873 E7
- 3874 E7
- 3875 E7
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Multi-channel sound module

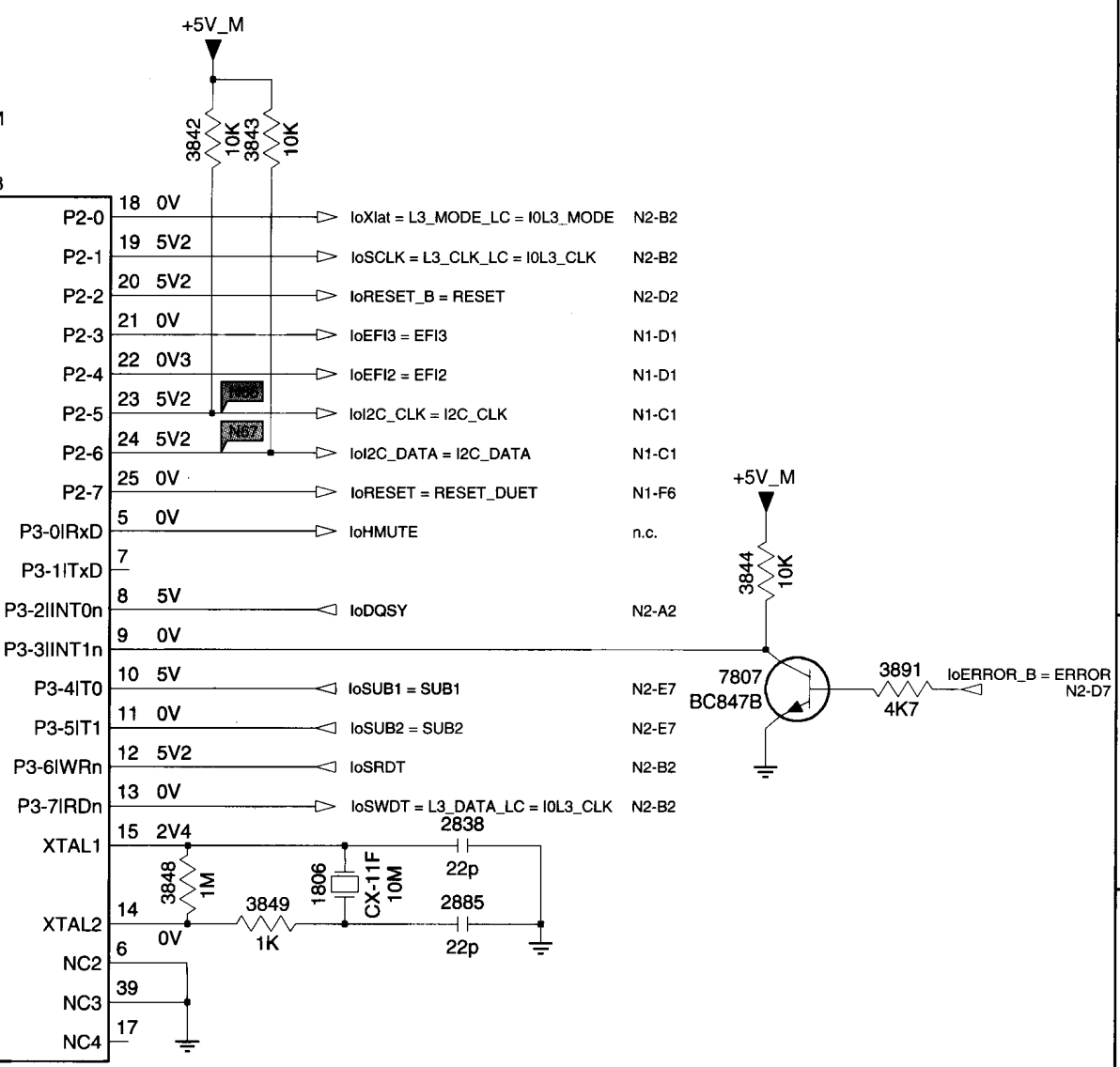


5 6 7 8

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- 2835 A4
- 2836 A4
- 2837 D4
- 2838 D7
- 2885 E7
- 3838 A3
- 3839 B3
- 3840 B4
- 3841 B4
- 3842 B6
- 3843 B6
- 3844 C7
- 3848 D5
- 3849 E6
- 3888 B3
- 3891 D8
- 7803 B4
- 7807 D7
- F848 A4
- F849 E4

M
38
P2-0
P2-1
P2-2
P2-3
P2-4
P2-5
P2-6
P2-7
P3-0IRxD
P3-1ITxD
P3-2IINT0n
P3-3IINT1n
P3-4IT0
P3-5IT1
P3-6IWRn
P3-7IRDn
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XTAL2
NC2
NC3
NC4
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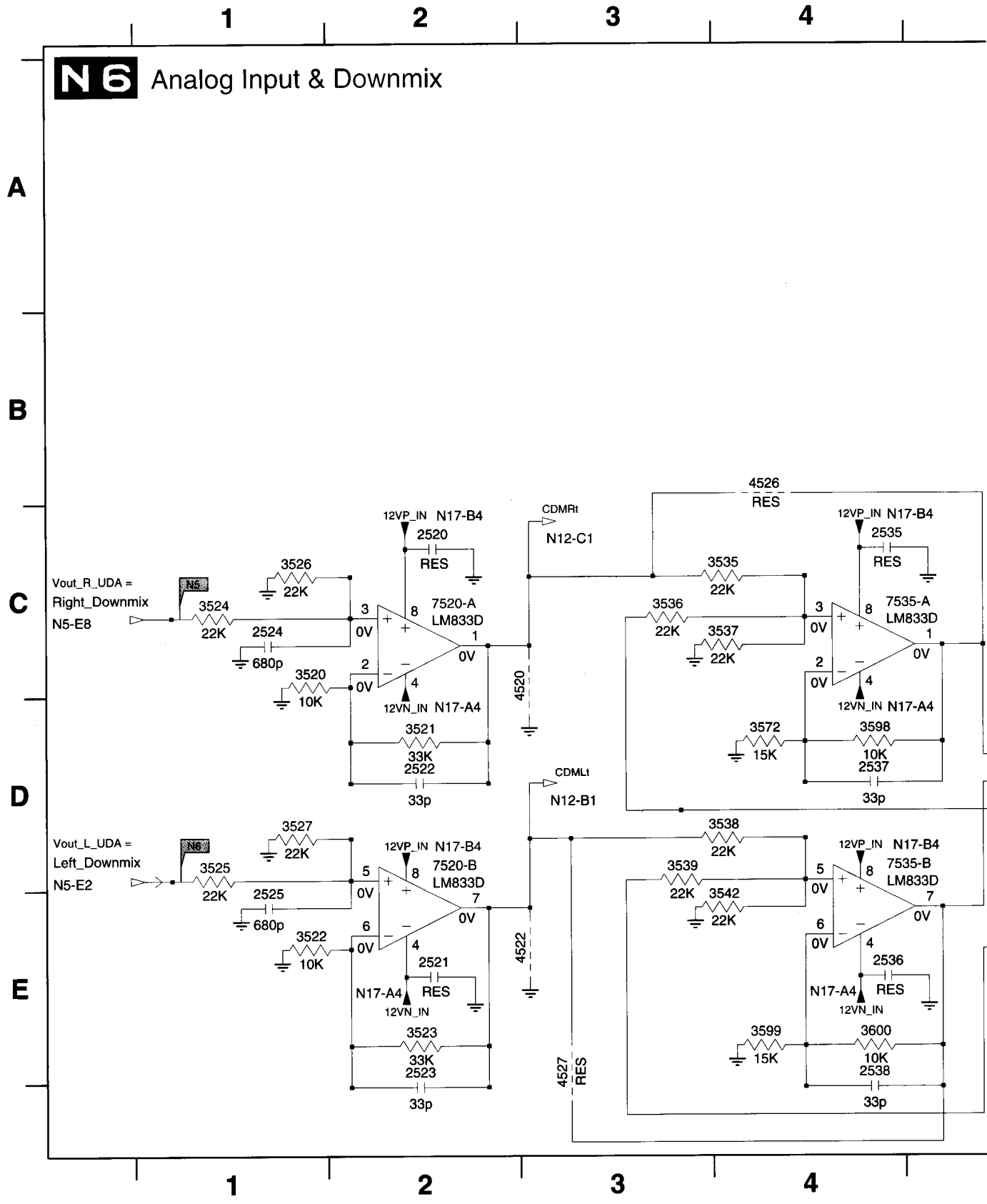
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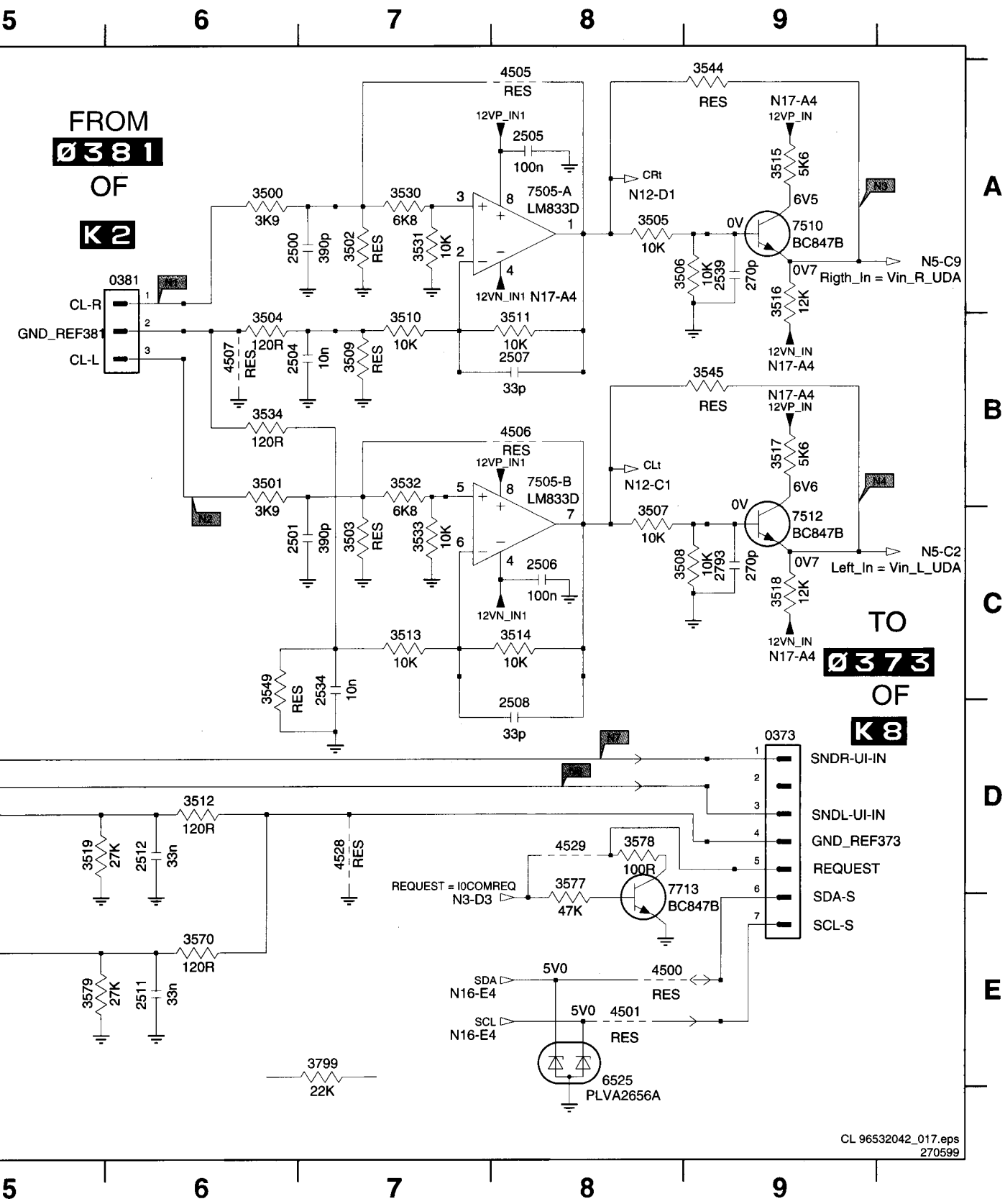
5 6 7 8

Multi-channel sound module

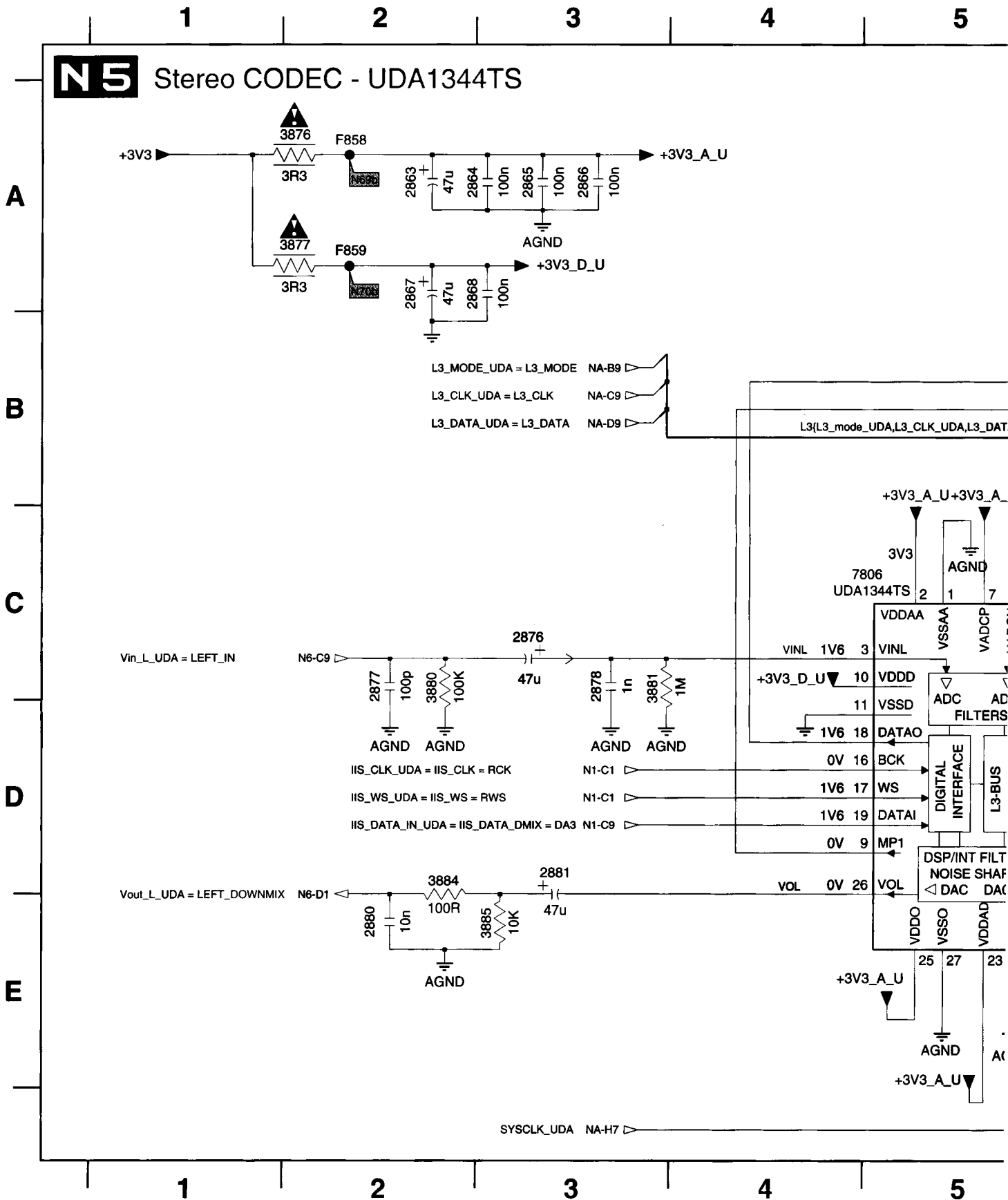
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| 0381 A6 | 2506 C8 | 2520 C2 | 2525 E1 | 2538 E4 | 3502 A7 | 3507 C8 | 3512 D6 | 3517 B9 | 3522 E1 | 35 |
| 2500 A6 | 2507 B8 | 2521 E2 | 2534 C7 | 2539 A9 | 3503 C7 | 3508 C9 | 3513 C7 | 3518 C9 | 3523 E2 | 35 |
| 2501 C6 | 2508 D8 | 2522 D2 | 2535 C4 | 2793 C9 | 3504 B6 | 3509 B7 | 3514 C8 | 3519 D5 | 3524 C1 | 35 |
| 2504 B6 | 2511 E6 | 2523 E2 | 2536 E4 | 3500 A6 | 3505 A8 | 3510 B7 | 3515 A9 | 3520 C1 | 3525 D1 | 35 |



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| 26 C1 | 3533 C7 | 3538 D4 | 3549 C6 | 3579 E5 | 4500 E8 | 4520 C3 | 4529 D8 | 7512 C9 | 7713 E8 |
| 27 D1 | 3534 B6 | 3539 D3 | 3570 E6 | 3598 D4 | 4501 E8 | 4522 E3 | 6525 E8 | 7520-A C2 | |
| 30 A7 | 3535 C4 | 3542 E4 | 3572 D4 | 3599 E4 | 4505 A8 | 4526 B4 | 7505-A A8 | 7520-B D2 | |
| 31 A7 | 3536 C3 | 3544 A9 | 3577 D8 | 3600 E4 | 4506 B8 | 4527 E3 | 7505-B B8 | 7535-A C4 | |
| 32 B7 | 3537 C4 | 3545 B9 | 3578 D8 | 3799 E7 | 4507 B6 | 4528 D7 | 7510 A9 | 7535-B D4 | |



Multi-channel sound module



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- 2863 A2
- 2864 A3
- 2865 A3
- 2866 A3
- 2867 A2
- 2868 A3
- 2869 C6
- 2870 C6
- 2871 C8
- 2872 C9
- 2873 C8
- 2874 E5
- 2875 E6
- 2876 C3
- 2877 C2
- 2878 C3
- 2879 D7
- 2880 E2
- 2881 D3
- 2882 E8
- 3876 A2
- 3877 A2
- 3878 C8
- 3879 C7
- 3880 C2
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- 3883 E7
- 3884 D2
- 3885 E3
- 7806 C5
- F858 A2
- F859 A2

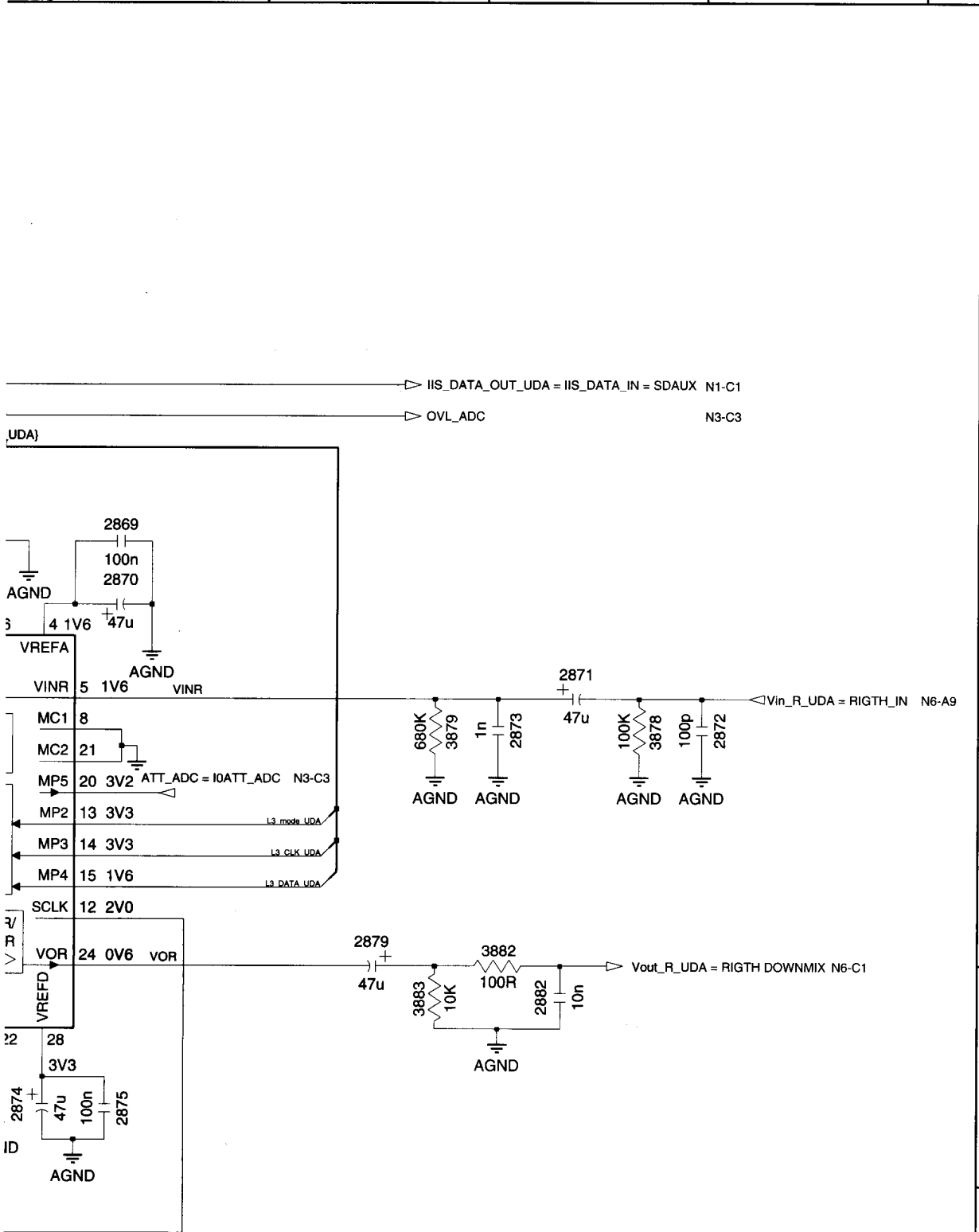
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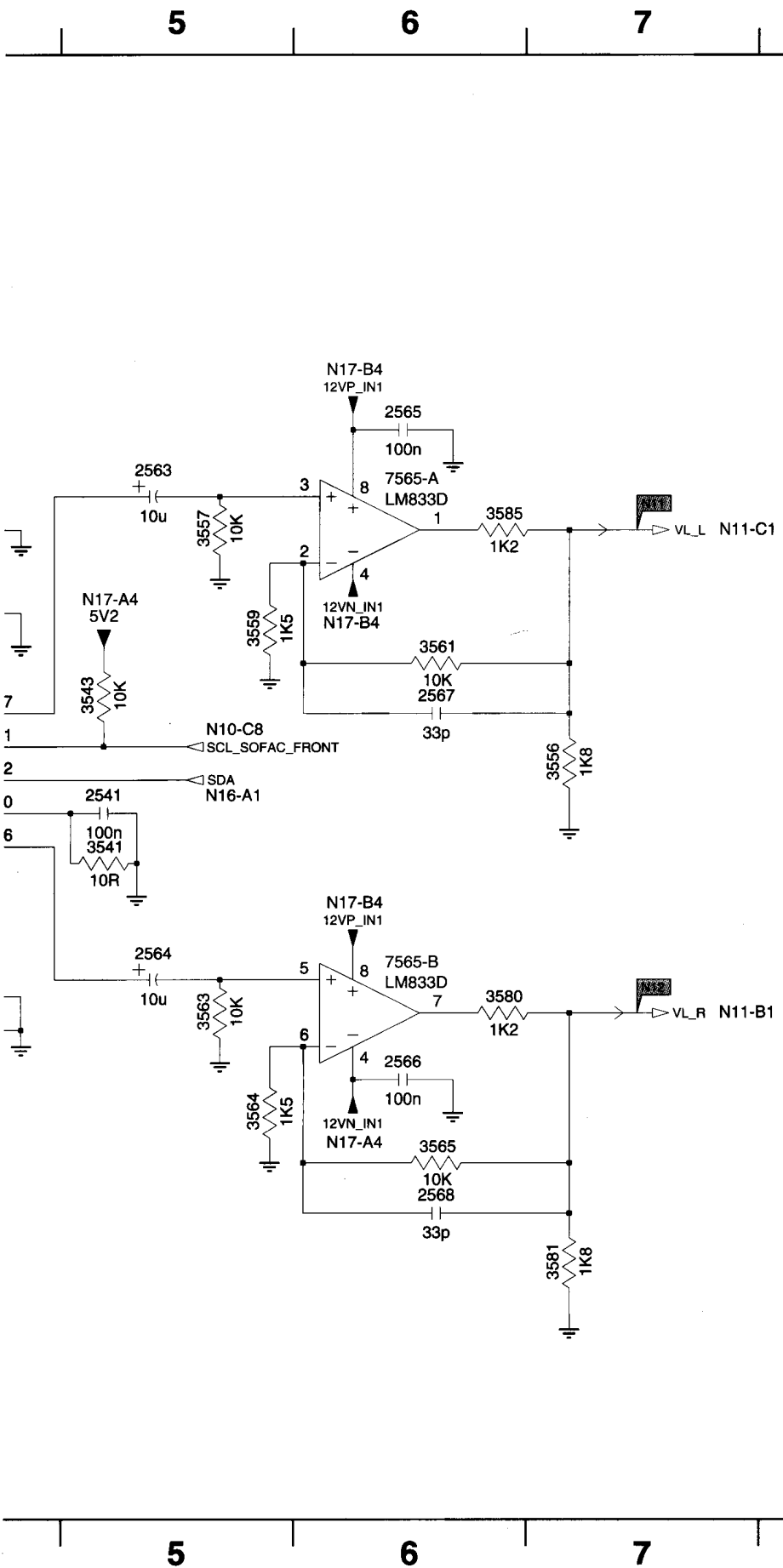


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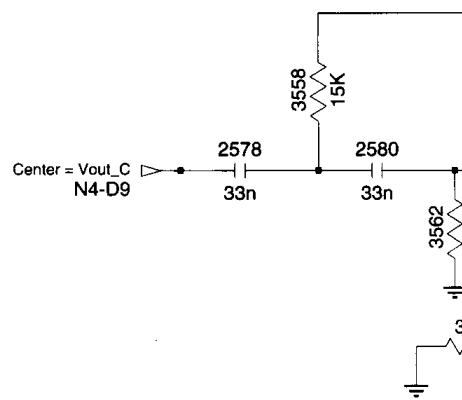
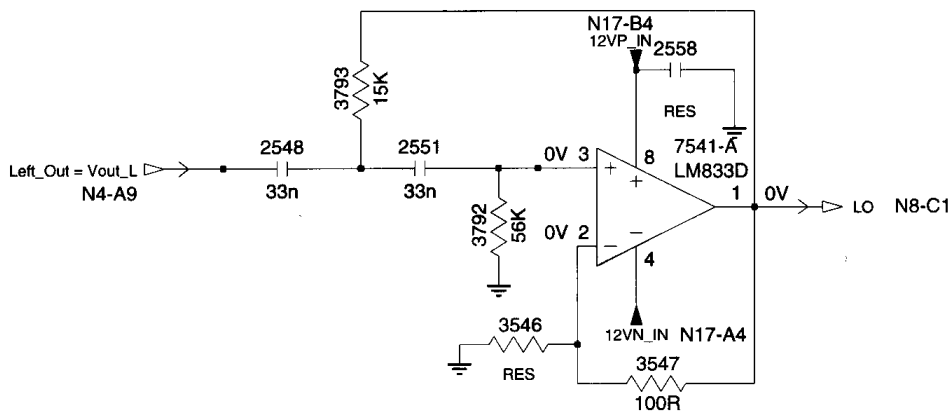
- 2540 C4
- 2541 D5
- 2542 C1
- 2543 C1
- 2545 C1
- 2546 D1
- 2549 C3
- 2553 C4
- 2555 B4
- 2556 D3
- 2560 D4
- 2562 D4
- 2563 B5
- 2564 D5
- 2565 B6
- 2566 E6
- 2567 C6
- 2568 E6
- 2569 D4
- 2740 A3
- 2741 A4
- 2743 A3
- 2744 F3
- 2745 B4
- 2746 E3
- 2747 E4
- 2749 F4
- 3541 D5
- 3543 C5
- 3553 B4
- 3556 C7
- 3557 B5
- 3559 C5
- 3560 D4
- 3561 C6
- 3563 D5
- 3564 E5
- 3565 E6
- 3580 D6
- 3581 F7
- 3585 B6
- 3740 B3
- 3741 B4
- 3742 A4
- 3743 B3
- 3744 B3
- 3745 B4
- 3746 E3
- 3747 E4
- 3748 E4
- 3749 F3
- 3750 F3
- 3751 F3
- 3758 B3
- 3759 E3
- 7540 C2
- 7565-A B6
- 7565-B D6
- 7740-A A3
- 7740-B E3

Multi-channel sound module

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| 2548 A1 | 2557 C2 | 2578 A5 | 2587 C5 | 2610 D6 | 2667 C8 | 3540 A8 | 3548 A8 | 3552 D2 | 3558 A5 | 3567 B6 |
| 2551 A2 | 2558 A3 | 2580 A5 | 2599 D5 | 2629 A9 | 2668 D9 | 3546 B2 | 3550 C2 | 3554 D3 | 3562 A5 | 3568 C5 |
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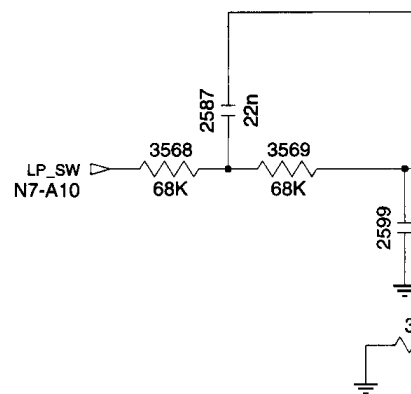
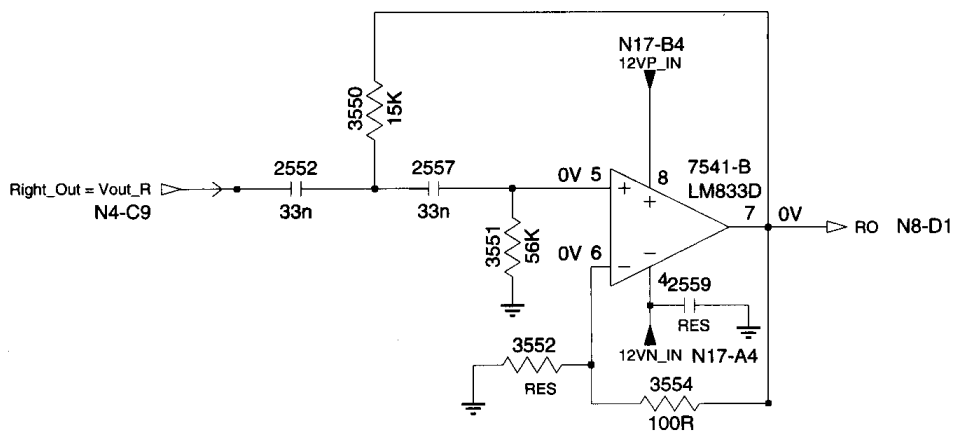
N7 Analog Output Filters

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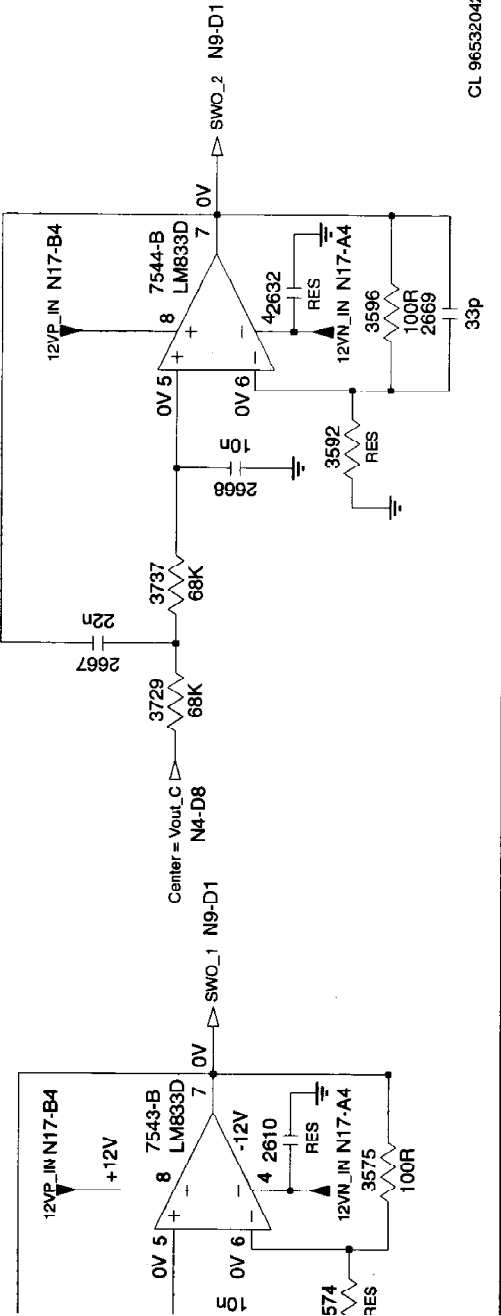
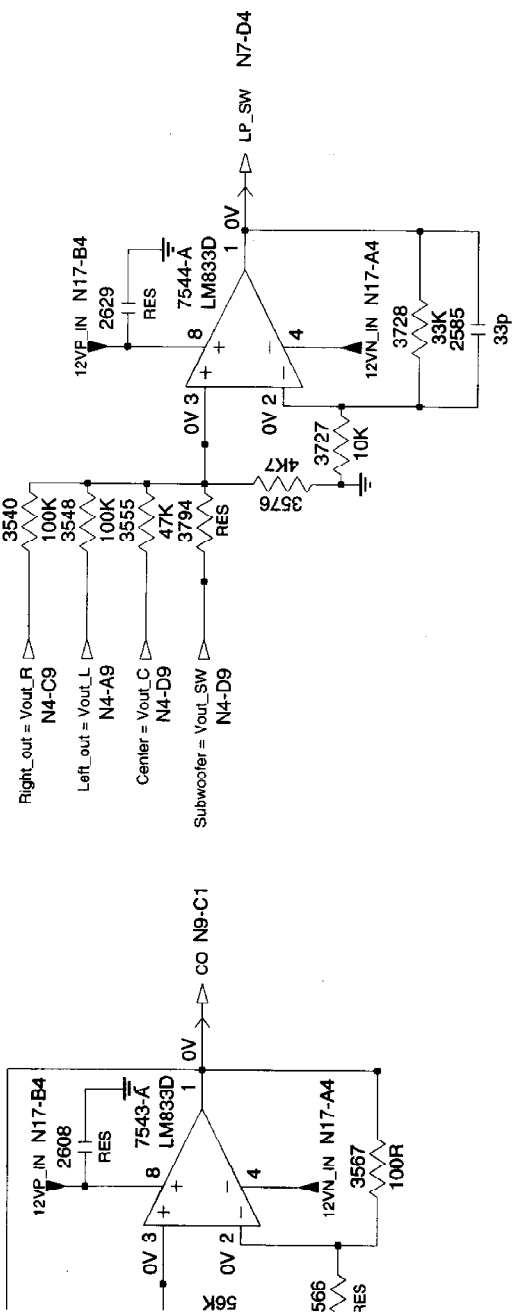
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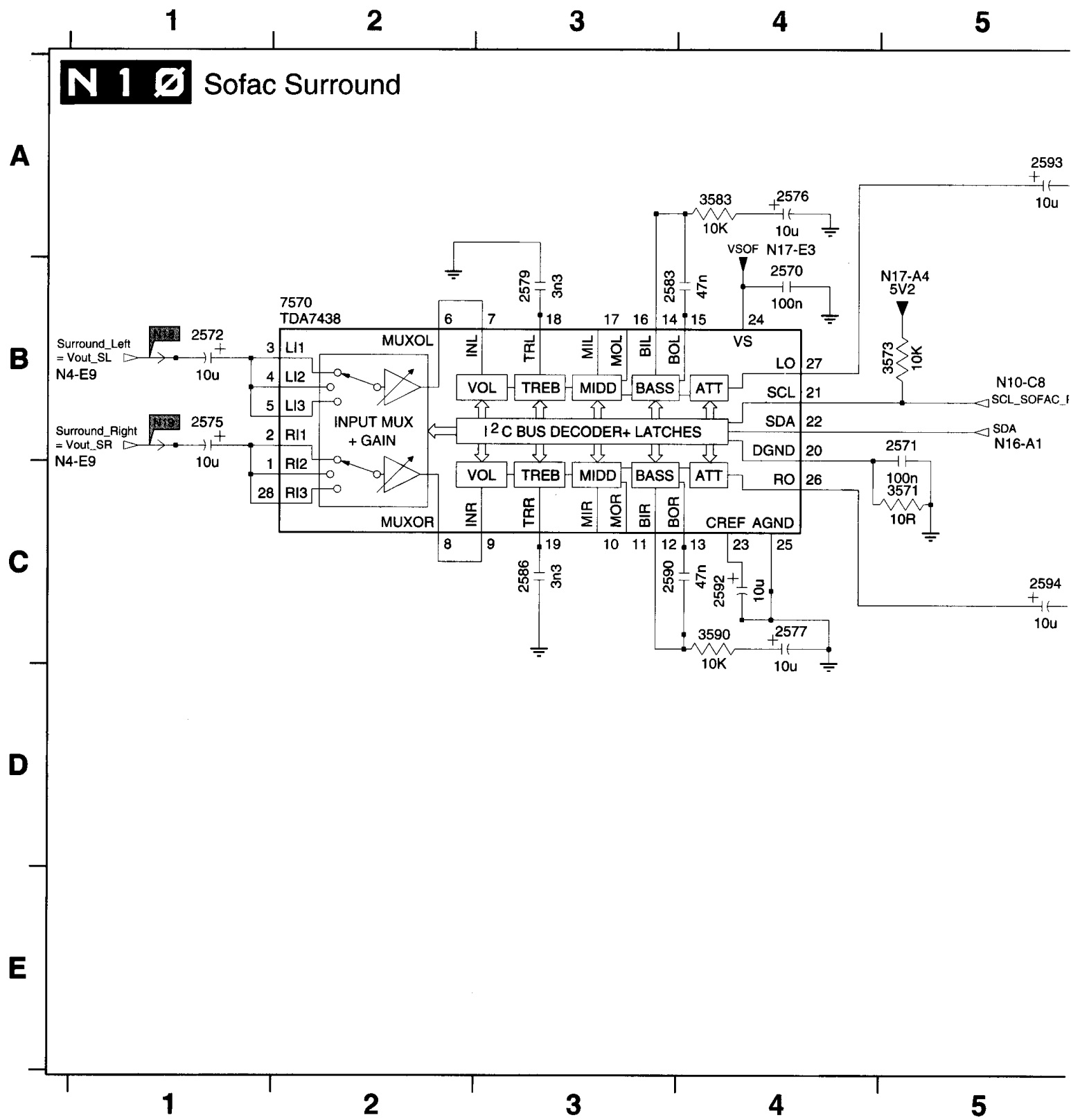
6 7 8 9 10



6 7 8 9 10

Multi-channel sound module

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| 2571 B5 | 2575 B1 | 2577 C4 | 2583 B3 | 2590 C3 | 2593 A5 | 2595 A6 | 2597 B6 | 2695 B8 | 357 |



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| 1 C5 | 3583 A4 | 3589 B6 | 3591 B6 | 3594 D6 | 3671 B9 | 3795 C10 | 7595-A A6 | 7695 C8 |
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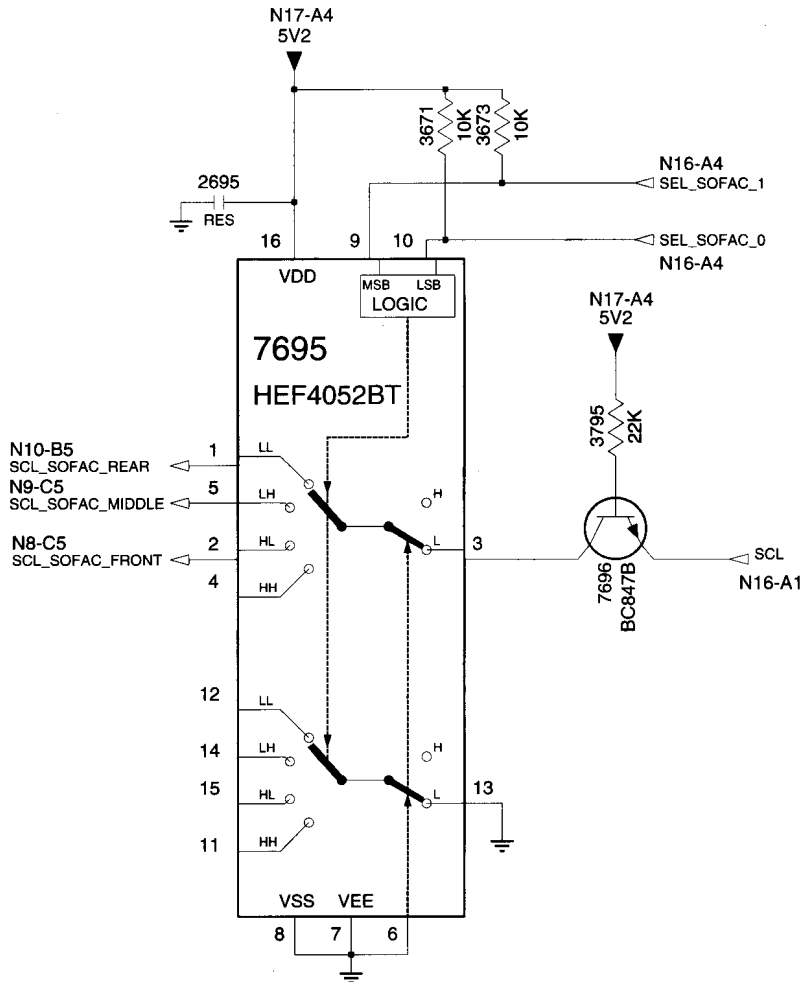
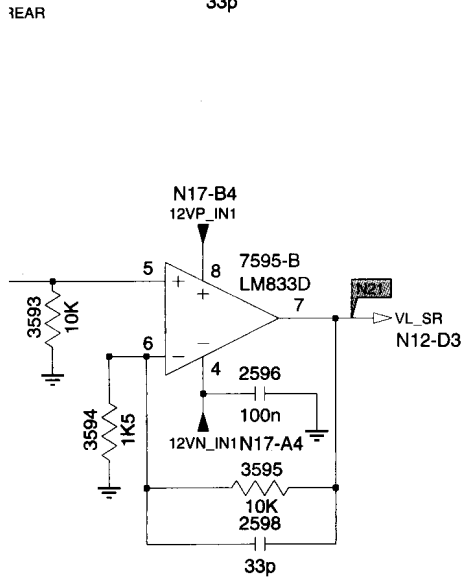
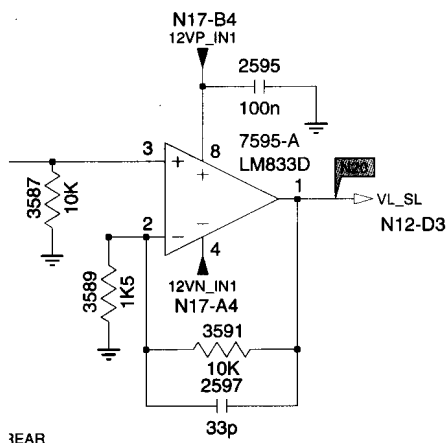
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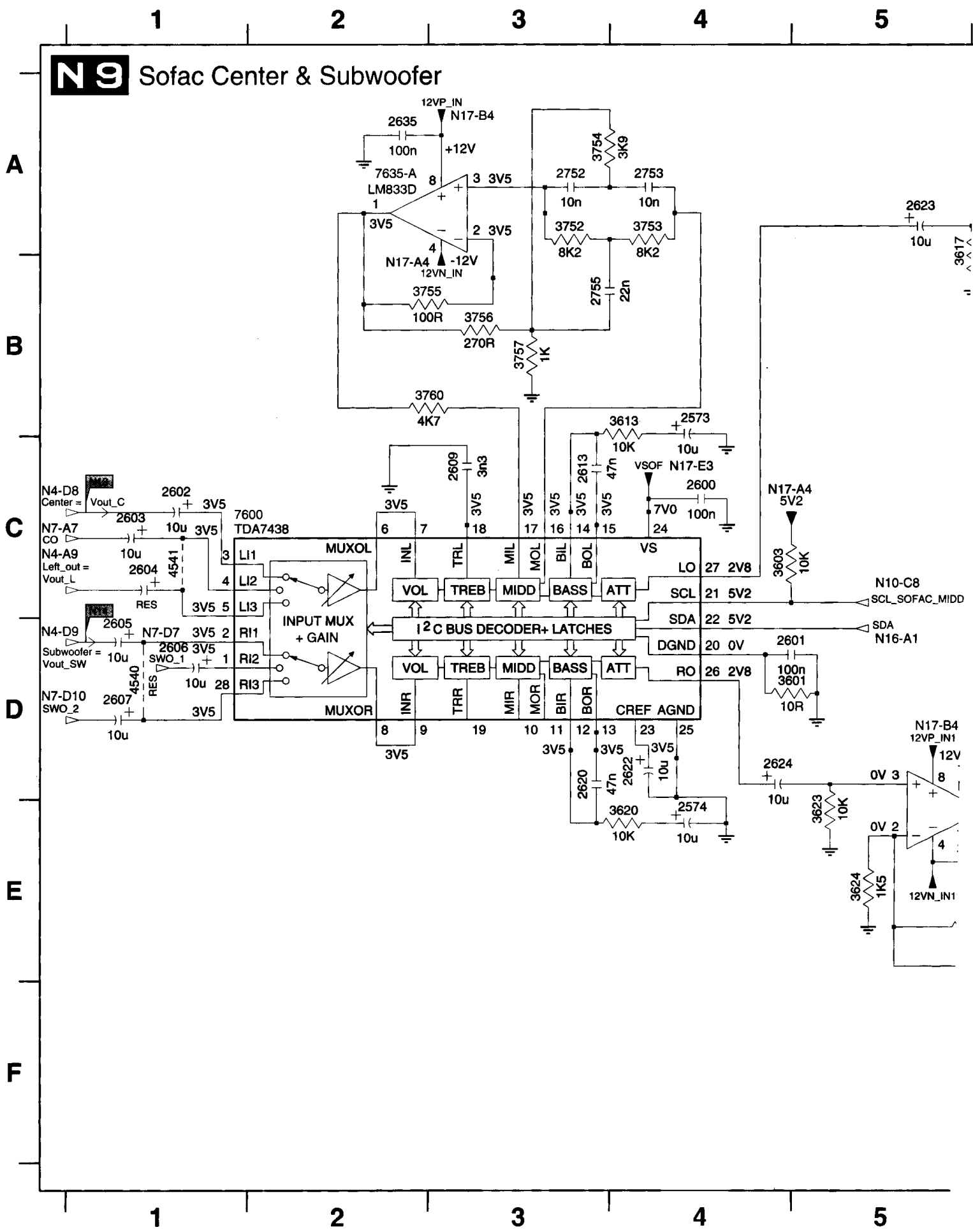
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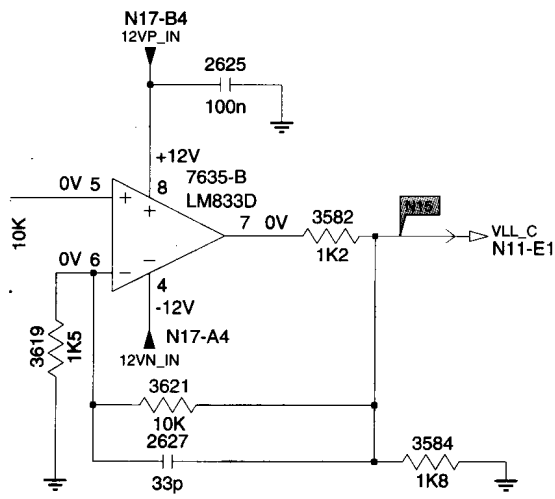
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Multi-channel sound module

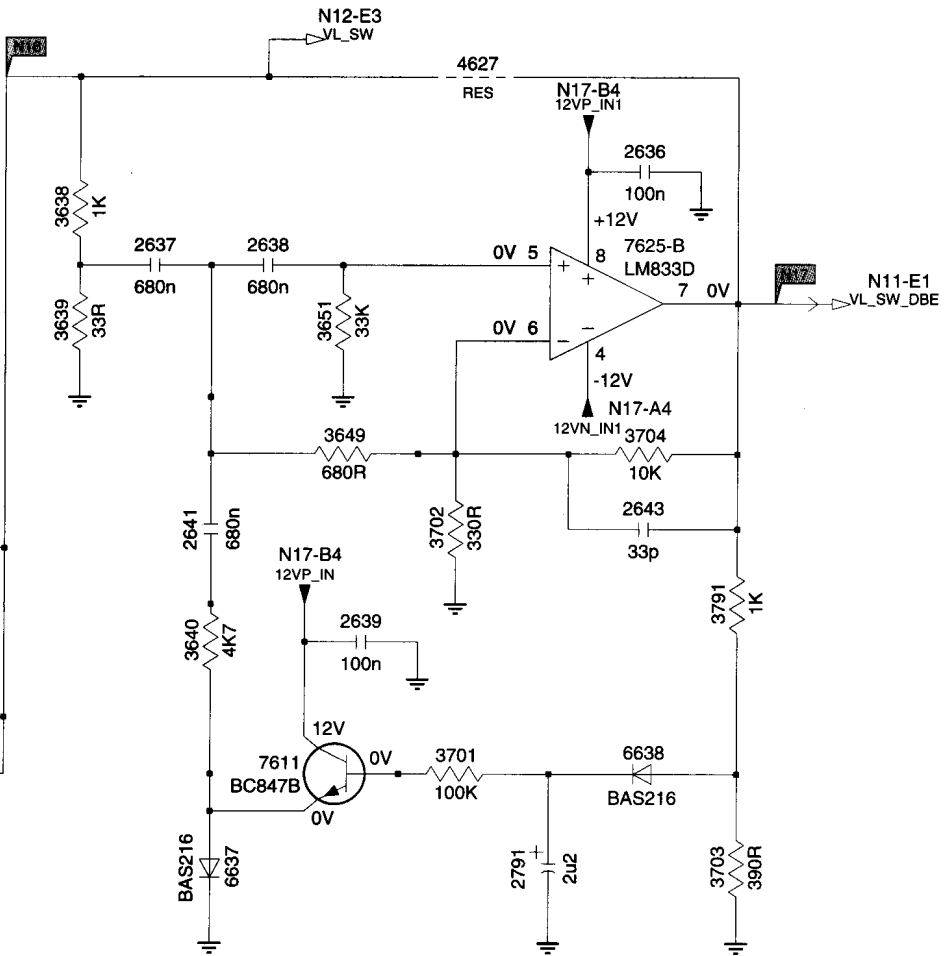


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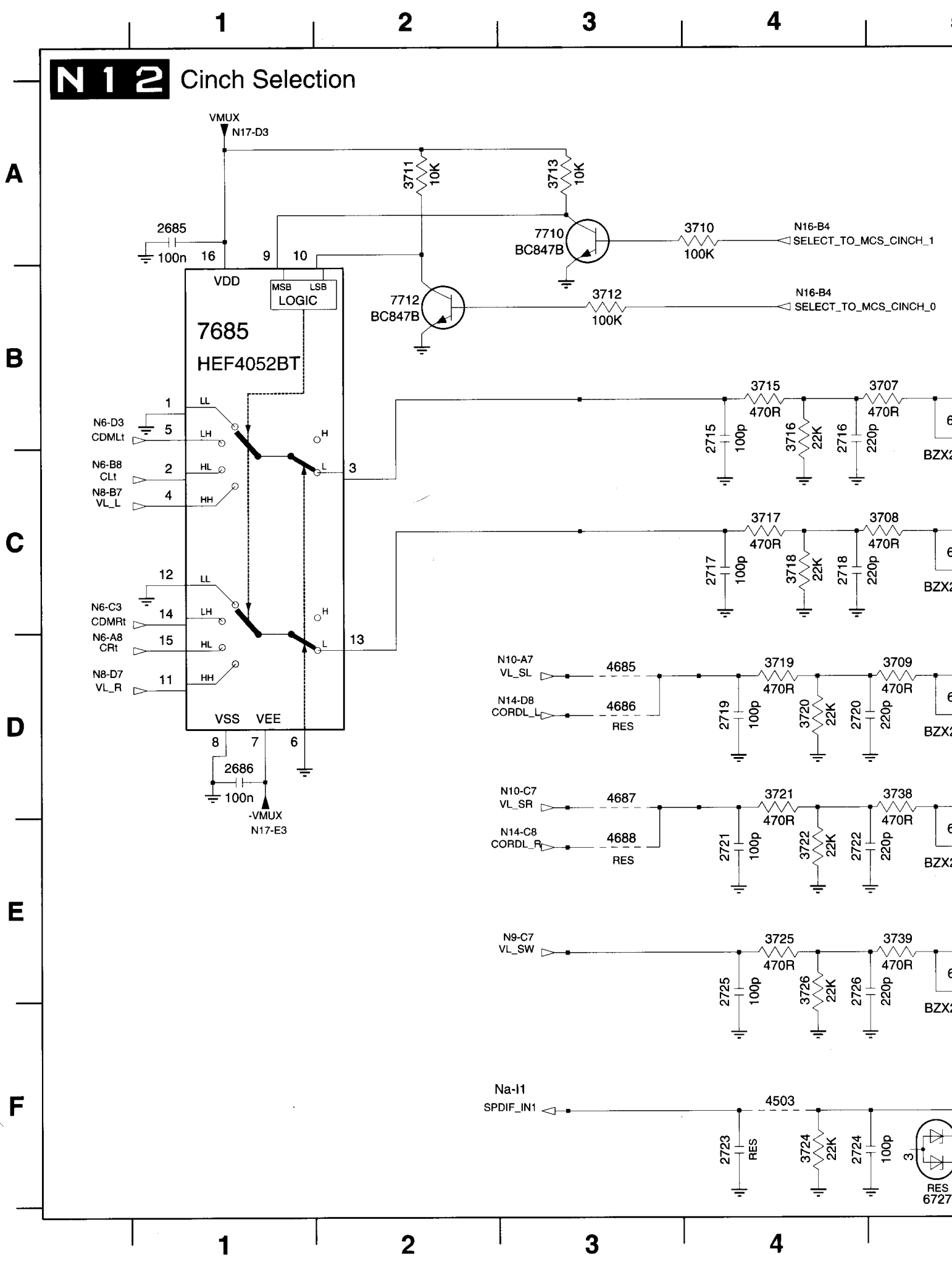
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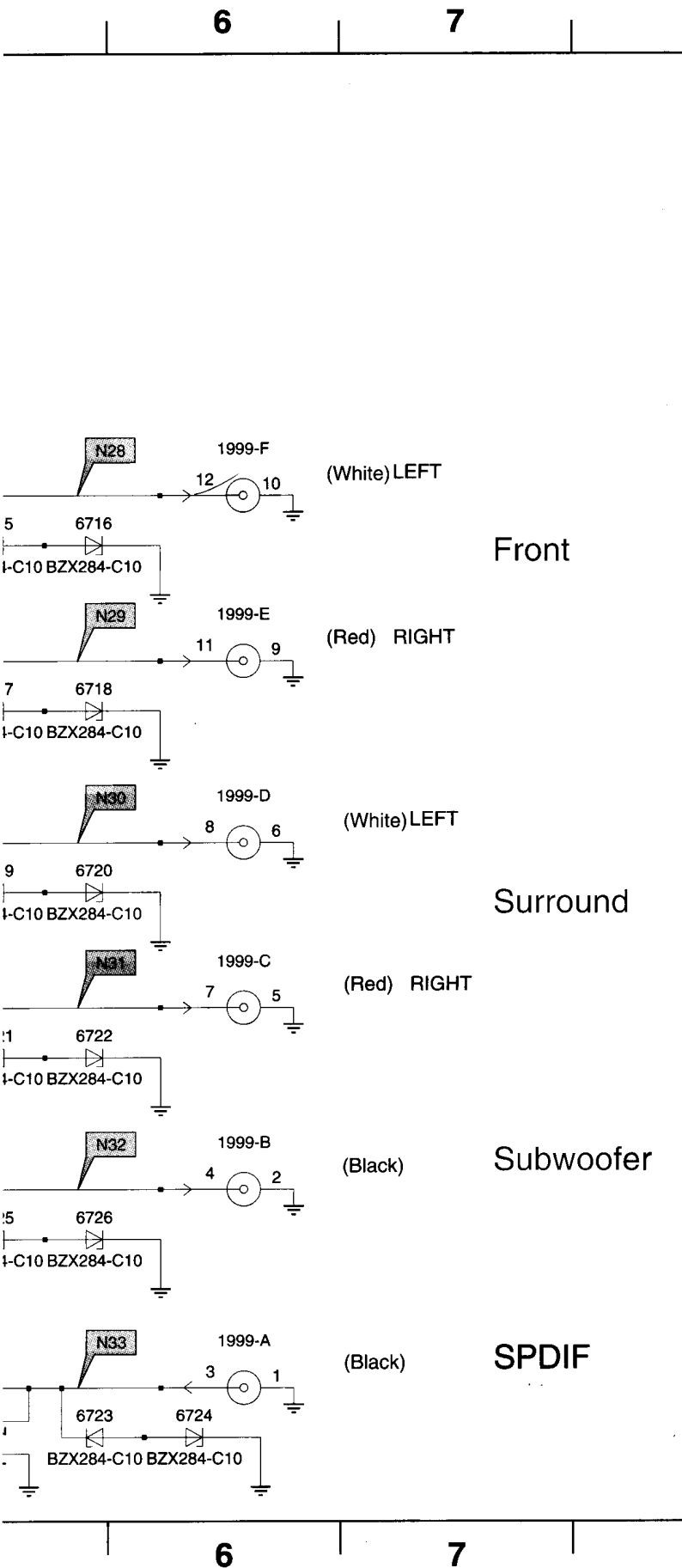
F

- 2573 B4
- 2574 E4
- 2600 C4
- 2601 D4
- 2602 C1
- 2603 C1
- 2604 C1
- 2605 D1
- 2606 D1
- 2607 D1
- 2609 C3
- 2613 C3
- 2620 D3
- 2622 D4
- 2623 A5
- 2624 D4
- 2625 A6
- 2626 E5
- 2627 B6
- 2628 E5
- 2635 A2
- 2636 C8
- 2637 C6
- 2638 C7
- 2639 E7
- 2641 D7
- 2643 D8
- 2752 A3
- 2753 A4
- 2755 B3
- 2791 F8
- 3582 A7
- 3584 B7
- 3601 D5
- 3603 C4
- 3613 B4
- 3617 A5
- 3619 B6
- 3620 E4
- 3621 B6
- 3623 E5
- 3624 E5
- 3625 E6
- 3638 C6
- 3639 D6
- 3640 E7
- 3649 D7
- 3651 D7
- 3701 E8
- 3702 D8
- 3703 F9
- 3704 D8
- 3752 A3
- 3753 A4
- 3754 A3
- 3755 B2
- 3756 B3
- 3757 B3
- 3760 B3
- 3791 E9
- 4540 D1
- 4541 C1
- 4627 C8
- 6637 F7
- 6638 E8
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- 7635-A A2
- 7635-B A6

6 7 8 9

Multi-channel sound module

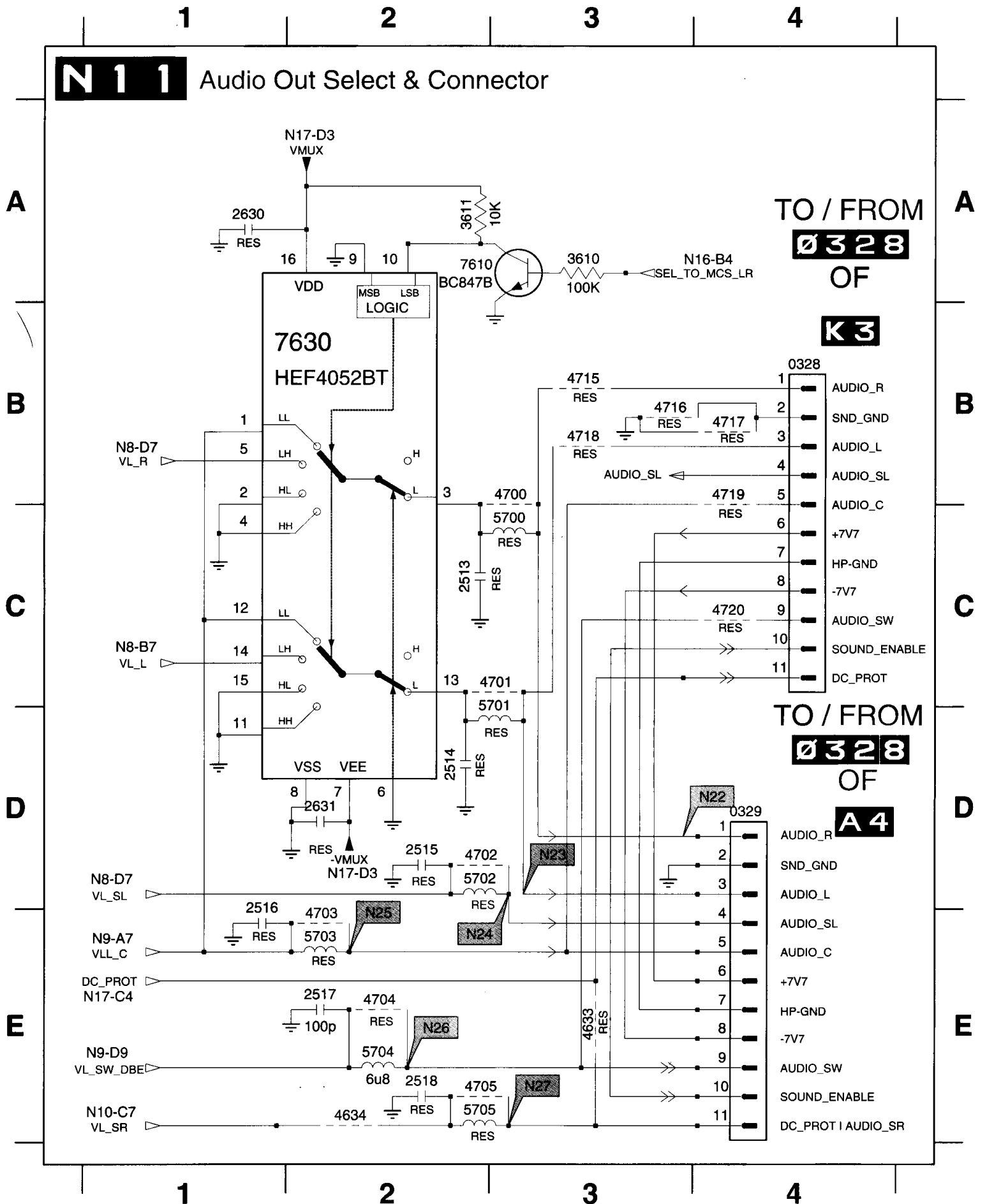


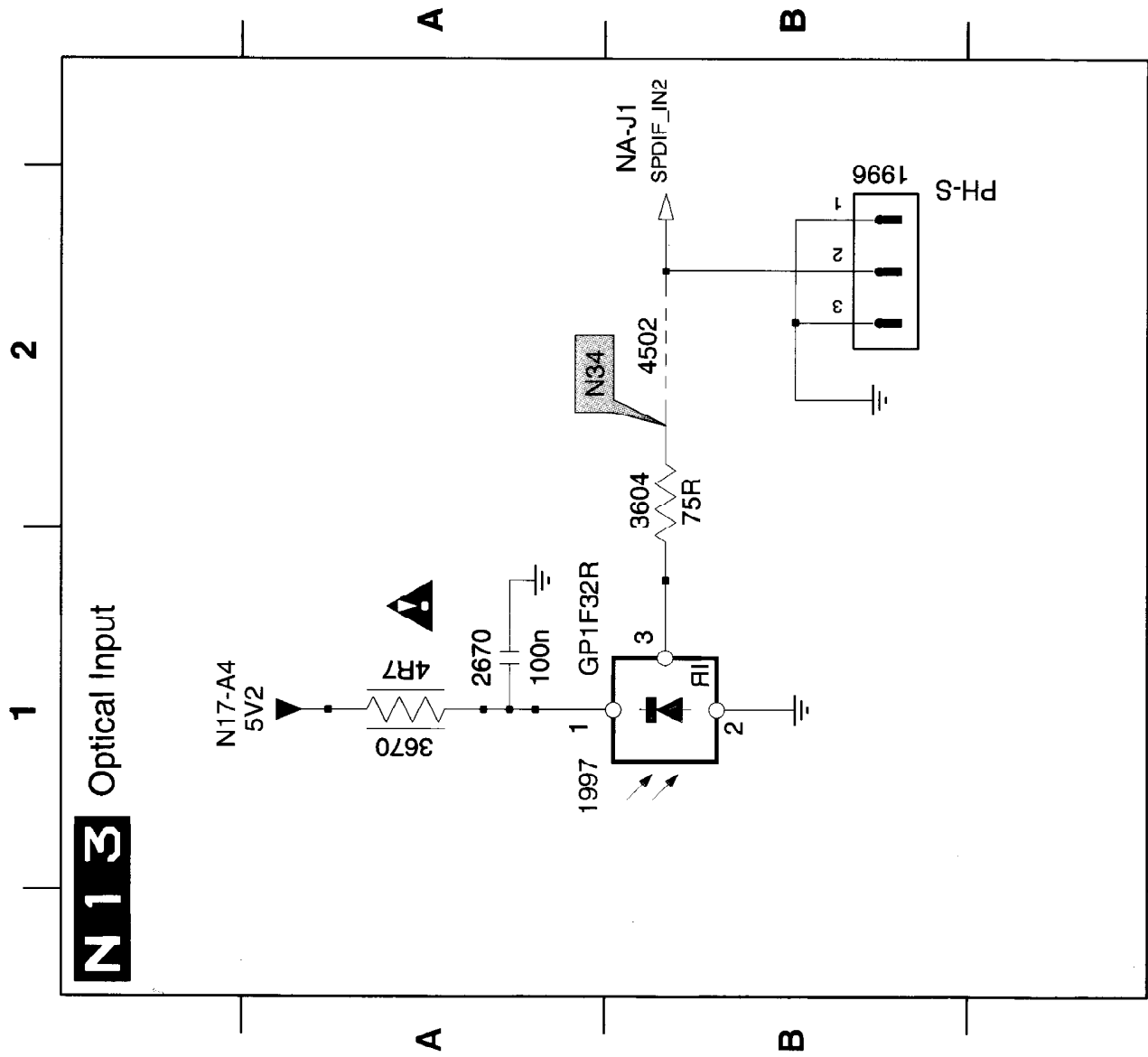


- 1999-A F6
- 1999-B E6
- 1999-C D6
- 1999-D D6
- 1999-E C6
- 1999-F B6
- 2685 A1
- 2686 D1
- 2715 B4
- 2716 B4
- 2717 C4
- 2718 C4
- 2719 D4
- 2720 D4
- 2721 E4
- 2722 E4
- 2723 F4
- 2724 F4
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- 2726 E4
- 3707 B5
- 3708 C5
- 3709 D5
- 3710 A4
- 3711 A2
- 3712 B3
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- 3720 D4
- 3721 D4
- 3722 E4
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- 3725 E4
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- 3738 D5
- 3739 E5
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- 6717 C5
- 6718 C5
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- 6720 D5
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- 6722 E5
- 6723 F5
- 6724 F6
- 6725 E5
- 6726 E5
- 6727 F5
- 7685 B1
- 7710 A3
- 7712 B2

Multi-channel sound module

| | | | | | | | | | | | |
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| 0328 B4 | 2514 D2 | 2517 E2 | 2631 D2 | 4633 E3 | 4701 C3 | 4704 E2 | 4716 B3 | 4719 B4 | 5701 D3 | 5704 E2 | 7630 B1 |
| 0329 D4 | 2515 D2 | 2518 E2 | 3610 A3 | 4634 E2 | 4702 D2 | 4705 E2 | 4717 B4 | 4720 C4 | 5702 D2 | 5705 E2 | |
| 2513 C2 | 2516 E1 | 2630 A1 | 3611 A2 | 4700 B3 | 4703 E2 | 4715 B3 | 4718 B3 | 5700 C3 | 5703 E2 | 7610 A3 | |

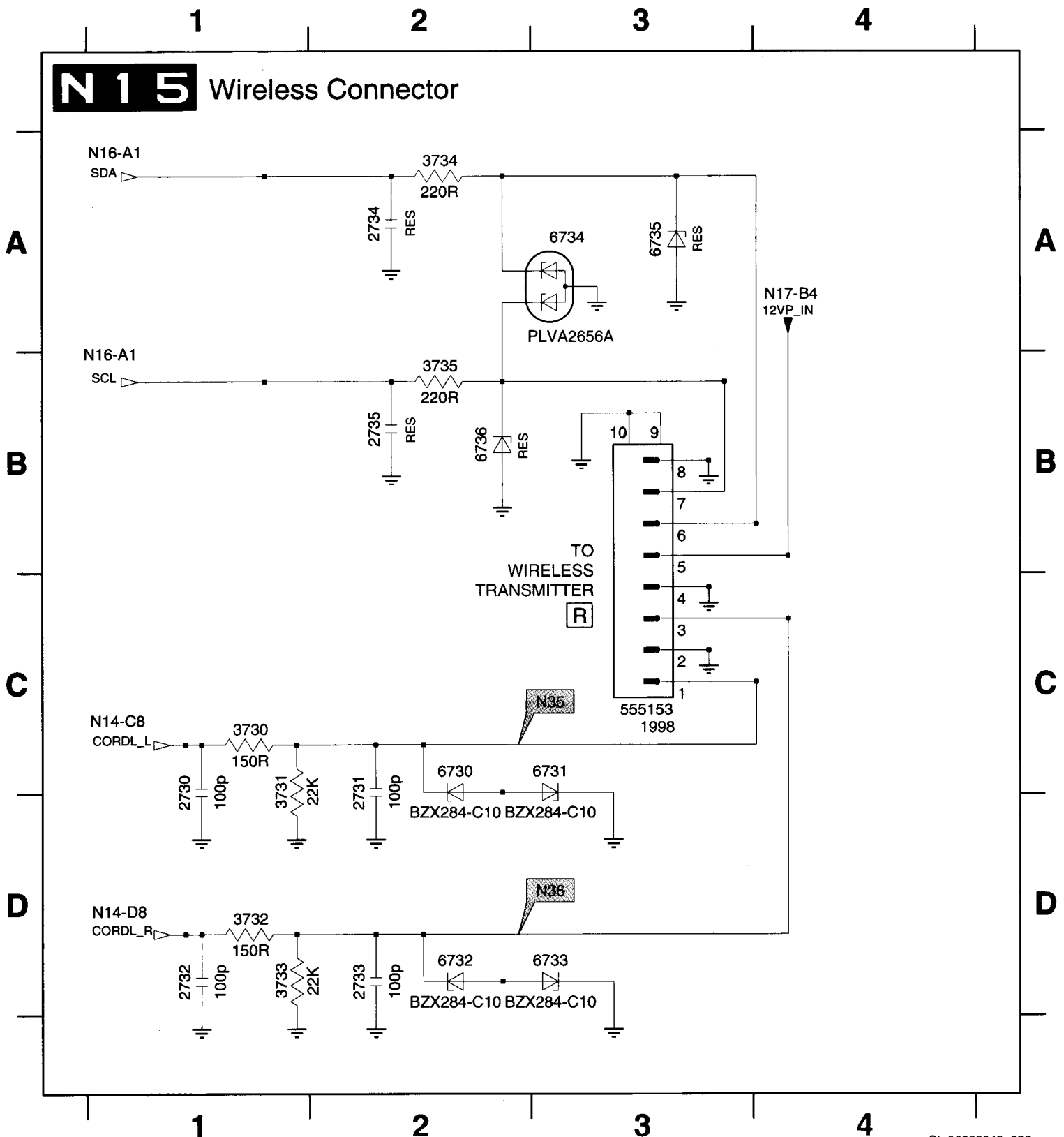




- 1996 B2
- 1997 A1
- 2670 A1
- 3604 B2
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- 4502 B2

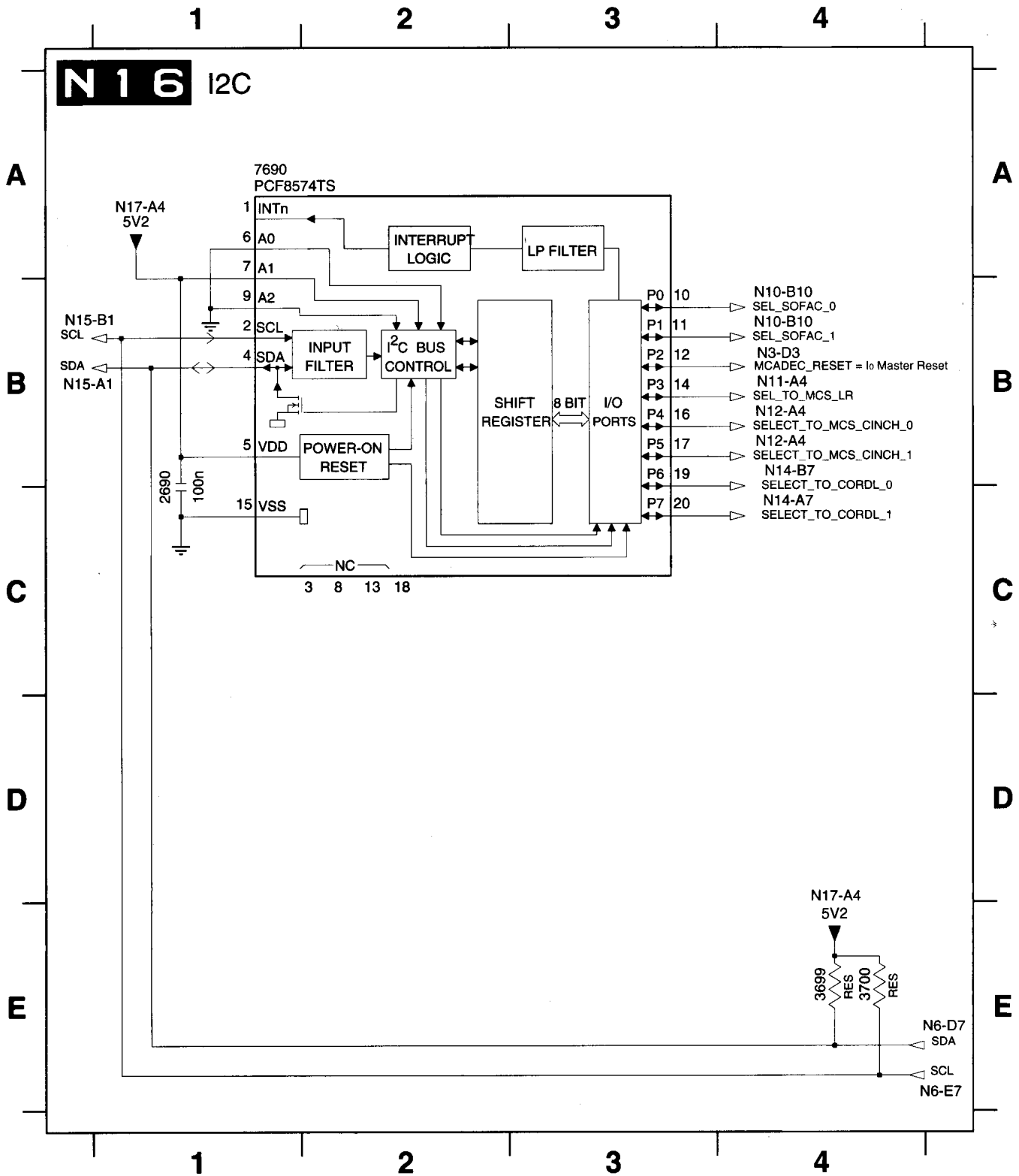
Multi-channel sound module

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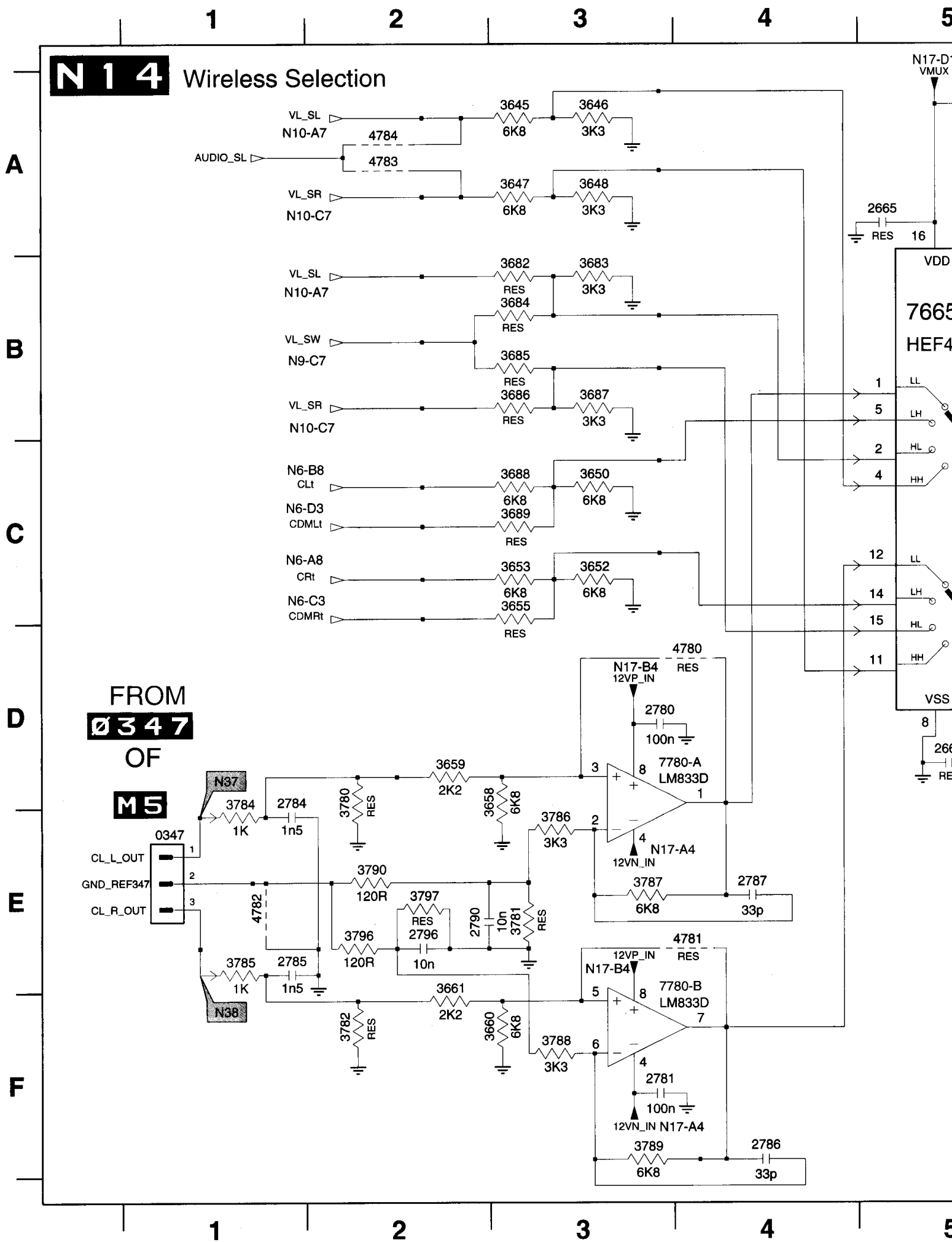


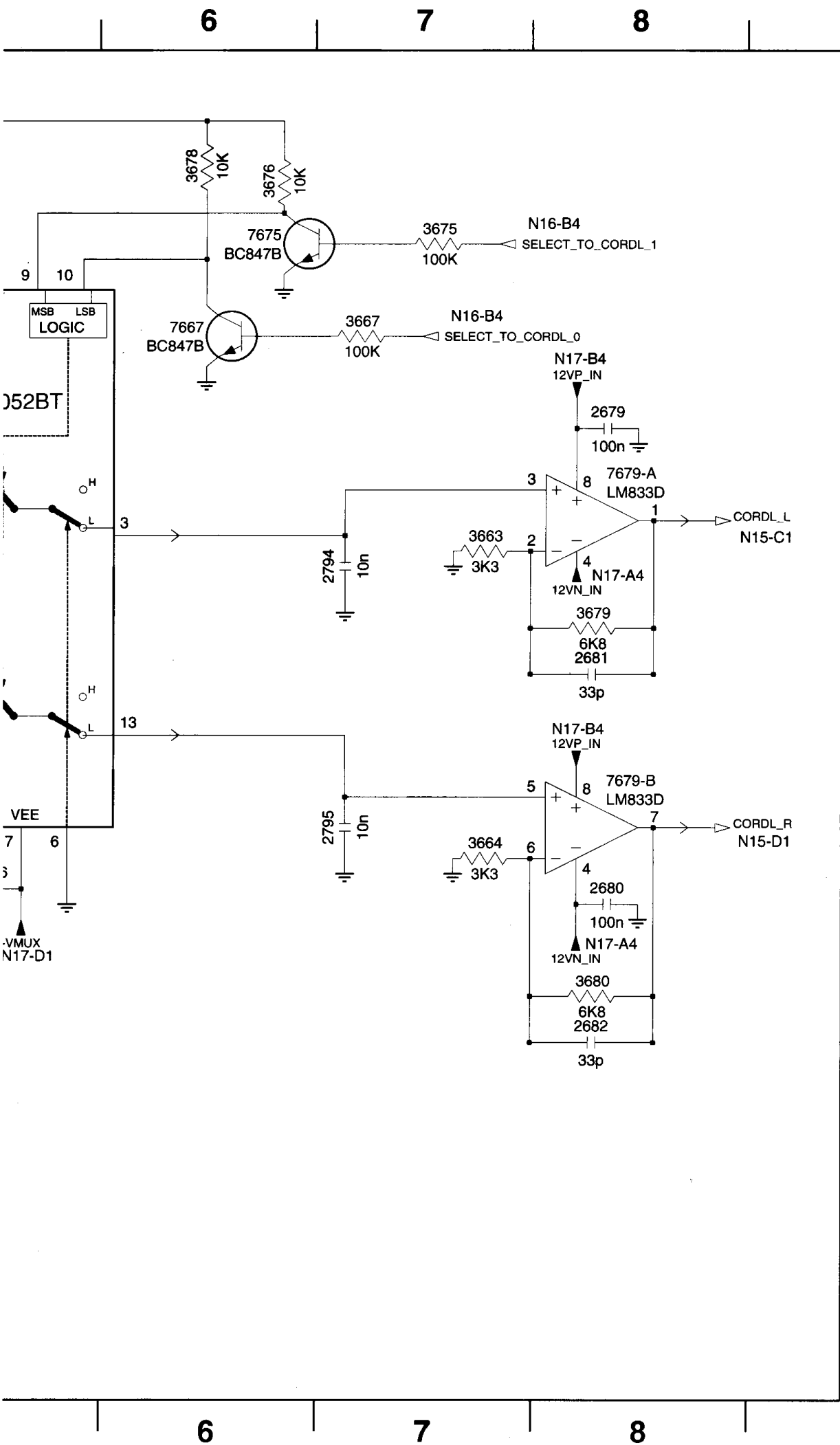
Multi-channel sound module

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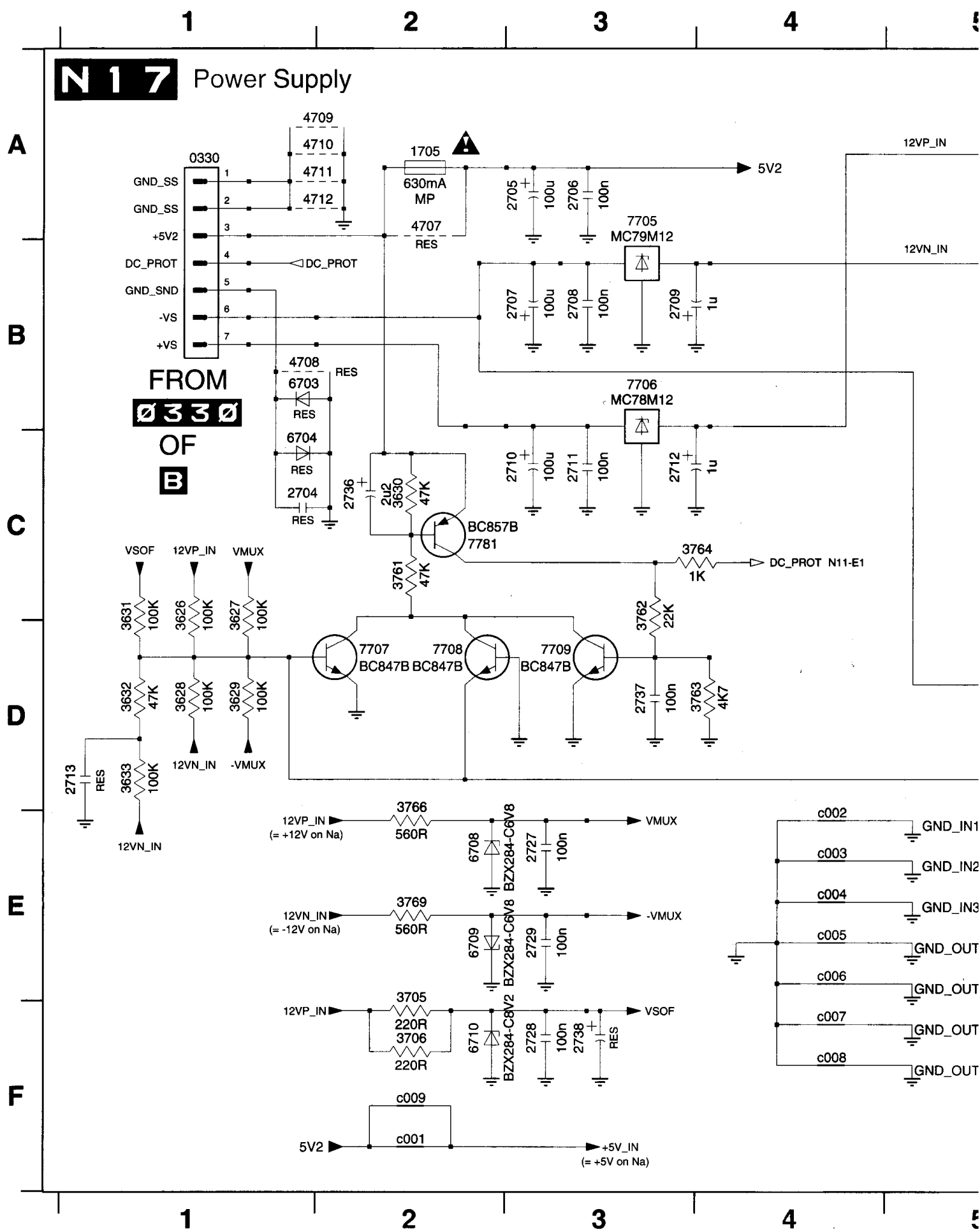
Multi-channel sound module

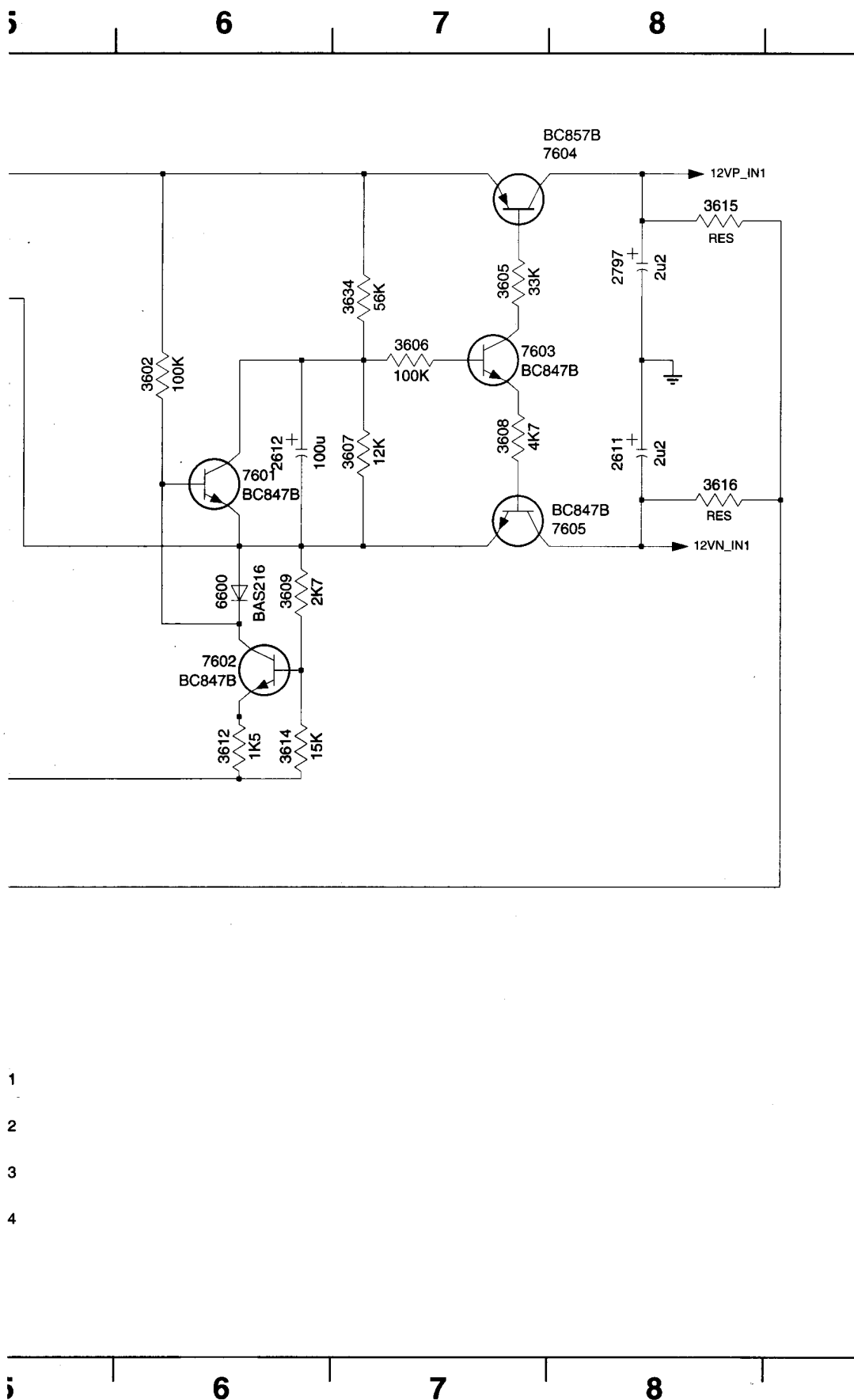




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- 2780 D3
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- 2784 D1
- 2785 E1
- 2786 F4
- 2787 E4
- 2790 E2
- 2794 C7
- 2795 D7
- 2796 E2
- 3645 A3
- 3646 A3
- 3647 A3
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- 3650 C3
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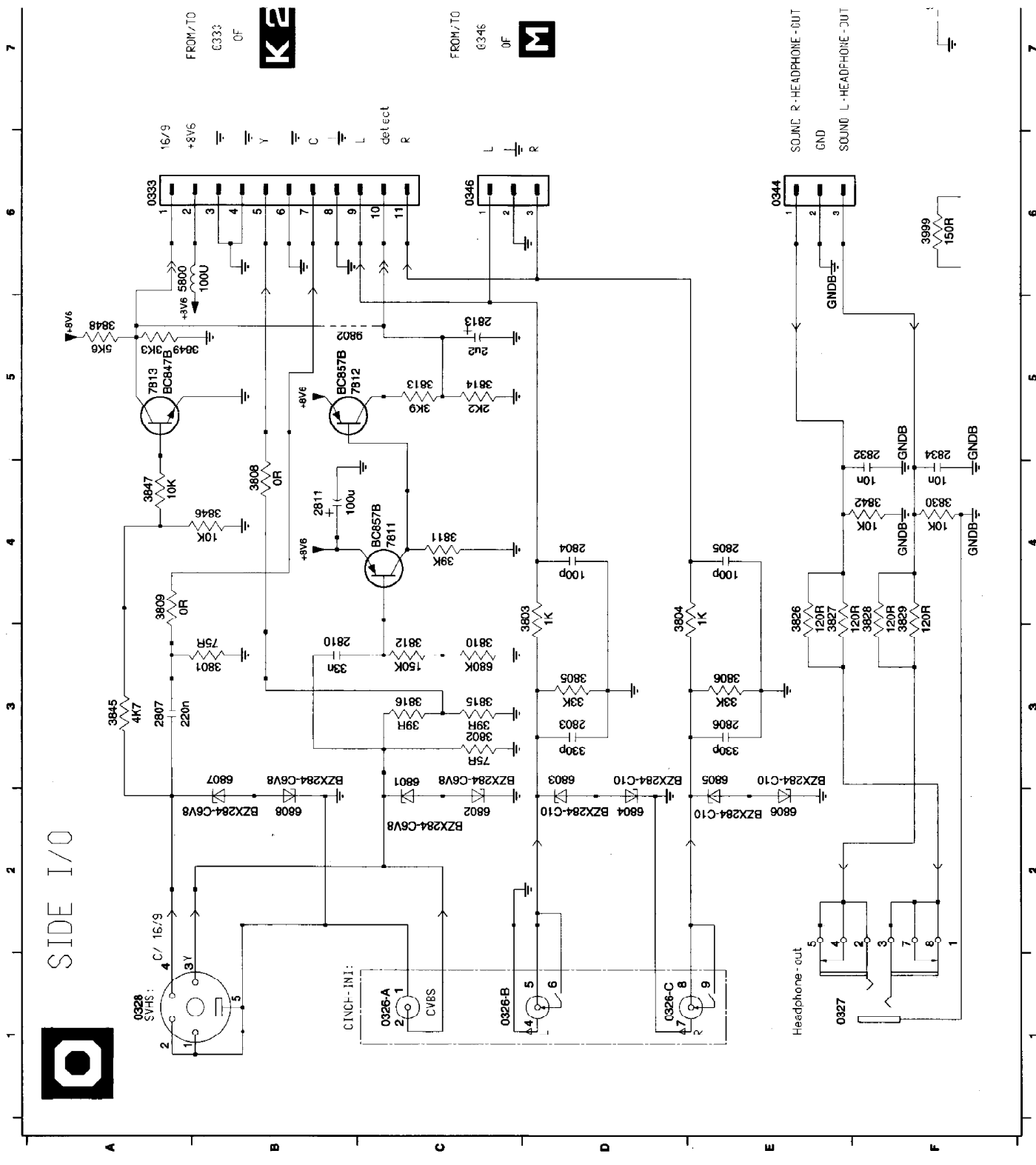
Multi-channel sound module





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| | 2612 B6 | 7602 C6 |
| | 2704 C1 | 7603 B7 |
| | 2705 A3 | 7604 A8 |
| | 2706 A3 | 7605 C8 |
| | 2707 B3 | 7705 A3 |
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| | 2709 B3 | 7707 D2 |
| | 2710 C3 | 7708 D2 |
| | 2711 C3 | 7709 D3 |
| | 2712 C3 | 7781 C2 |
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| | 2727 E3 | c002 E4 |
| | 2728 F3 | c003 E4 |
| | 2729 E3 | c004 E4 |
| | 2736 C2 | c005 E4 |
| | 2737 D3 | c006 E4 |
| | 2738 F3 | c007 F4 |
| | 2797 A8 | c008 F4 |
| | 3602 B6 | c009 F2 |
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| | 3612 D6 | |
| | 3614 D6 | |
| | 3615 A8 | |
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| | 3626 C1 | |
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| | 3628 D1 | |
| | 3629 D1 | |
| | 3630 C2 | |
| | 3631 C1 | |
| | 3632 D1 | |
| | 3633 D1 | |
| | 3634 B7 | |
| E | 3705 F2 | |
| | 3706 F2 | |
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| | 3762 C3 | |
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| | 4707 A2 | |
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| F | 4710 A2 | |
| | 4711 A2 | |
| | 4712 A2 | |
| | 6600 C6 | |
| | 6703 B1 | |
| | 6704 C1 | |
| | 6708 E2 | |

Side I/O



SIDE I/O



FROM: TO
G333 OF



FROM: TO
G346 OF



SOUND R-HEADPHONE-OUT
GND
SOUND L-HEADPHONE-OUT

Headphone-out

1 2 3 4 5 6 7

A

B

C

D

E

F

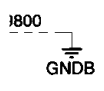
1 2 3 4 5 6 7



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- 0333 A6
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- 0346 C6
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- 2804 D4
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- 6804 D2
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(DOUBLE WINDOW)

FROM/TO
0344
OF



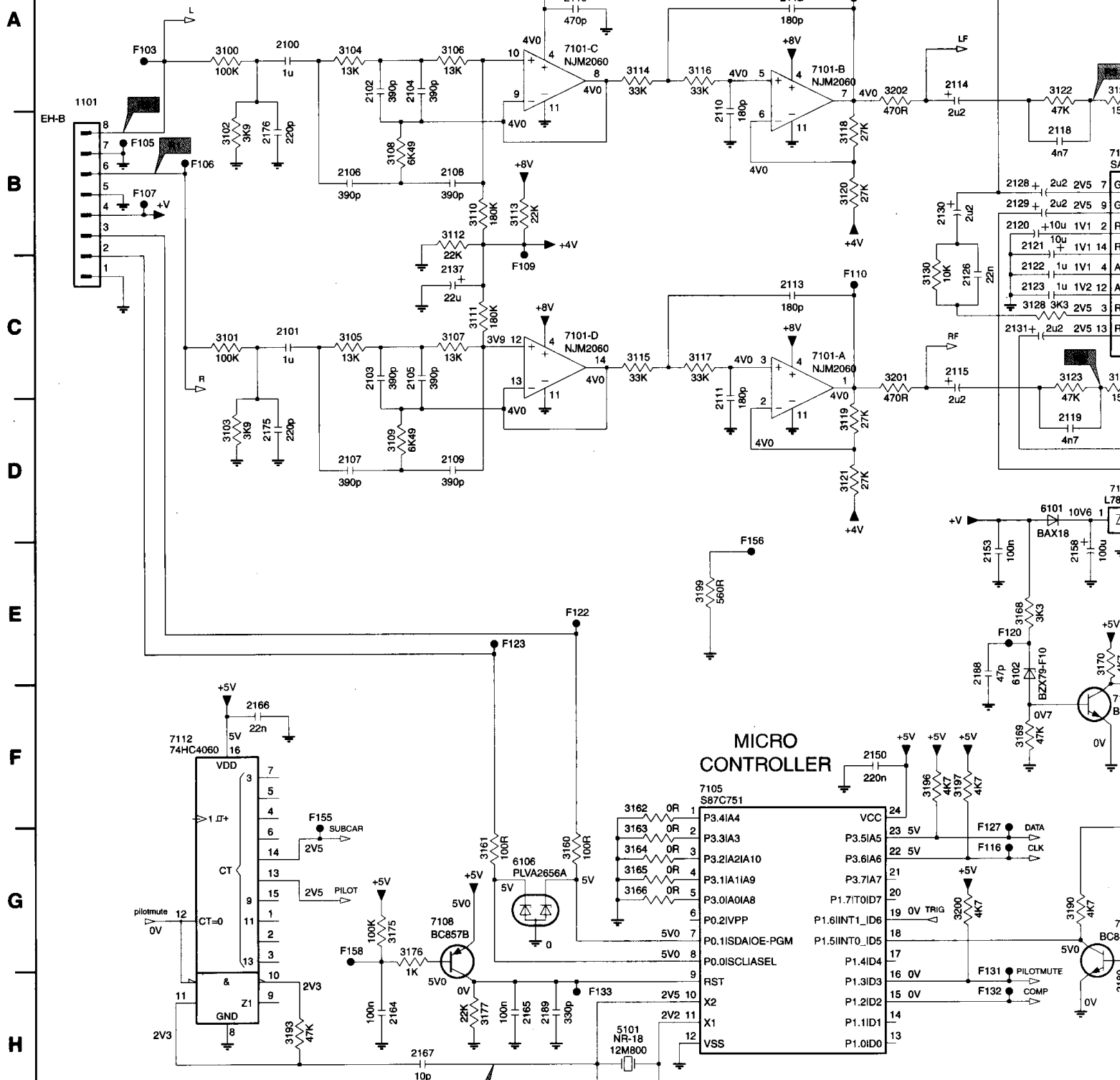
Wireless surround transmitter

| | | | | | | | | | | | | | | |
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| 1002 A15 | 2106 B3 | 2115 C7 | 2124 A9 | 2133 C10 | 2143 E12 | 2156 E9 | 2167 H3 | 2179 G15 | 2189 H4 | 3107 C3 | 3116 A5 | 3125 C8 | 3134 B10 | 3143 A15 |
| 1101 A1 | 2107 D3 | 2116 A4 | 2125 C9 | 2134 B10 | 2144 E13 | 2157 E9 | 2168 D14 | 2180 H8 | 2190 A15 | 3108 B3 | 3117 C5 | 3126 A9 | 3135 C10 | 3144 A15 |
| 1102 A13 | 2108 B3 | 2117 B8 | 2126 C7 | 2135 D10 | 2147 A14 | 2158 E8 | 2169 D14 | 2181 A10 | 3100 A2 | 3109 D3 | 3118 B6 | 3127 B9 | 3136 B10 | 3145 A15 |
| 2100 A2 | 2109 D3 | 2118 B7 | 2127 D8 | 2136 A10 | 2150 F6 | 2161 H11 | 2170 D11 | 2182 C10 | 3101 C2 | 3110 B3 | 3119 D6 | 3128 C7 | 3137 C10 | 3146 A15 |
| 2101 C2 | 2110 B5 | 2119 D8 | 2128 B7 | 2137 C3 | 2151 H4 | 2162 H12 | 2173 E10 | 2183 G10 | 3102 B2 | 3111 C3 | 3120 B6 | 3129 D9 | 3138 A11 | 3147 A15 |
| 2102 A3 | 2111 D5 | 2120 B7 | 2129 B7 | 2138 E11 | 2152 H5 | 2163 H14 | 2174 H10 | 2185 G13 | 3103 D2 | 3112 B3 | 3121 D6 | 3130 C7 | 3139 C11 | 3148 A15 |
| 2103 C3 | 2112 A6 | 2121 B7 | 2130 B7 | 2139 D12 | 2153 E7 | 2164 H3 | 2175 D2 | 2186 G13 | 3104 A3 | 3113 B4 | 3122 A7 | 3131 D8 | 3140 A11 | 3149 A15 |
| 2104 A3 | 2113 C6 | 2122 C7 | 2131 C7 | 2141 D11 | 2154 F8 | 2165 H4 | 2176 B2 | 2187 H13 | 3105 C3 | 3114 A5 | 3123 C8 | 3132 B10 | 3141 C11 | 3150 A15 |
| 2105 C3 | 2114 A7 | 2123 C7 | 2132 A10 | 2142 D12 | 2155 E8 | 2166 F2 | 2178 E9 | 2188 E7 | 3106 A3 | 3115 C5 | 3124 A8 | 3133 D10 | 3142 E10 | 3151 A15 |

1 2 3 4 5 6 7



WIRELESS TRANSMITTER

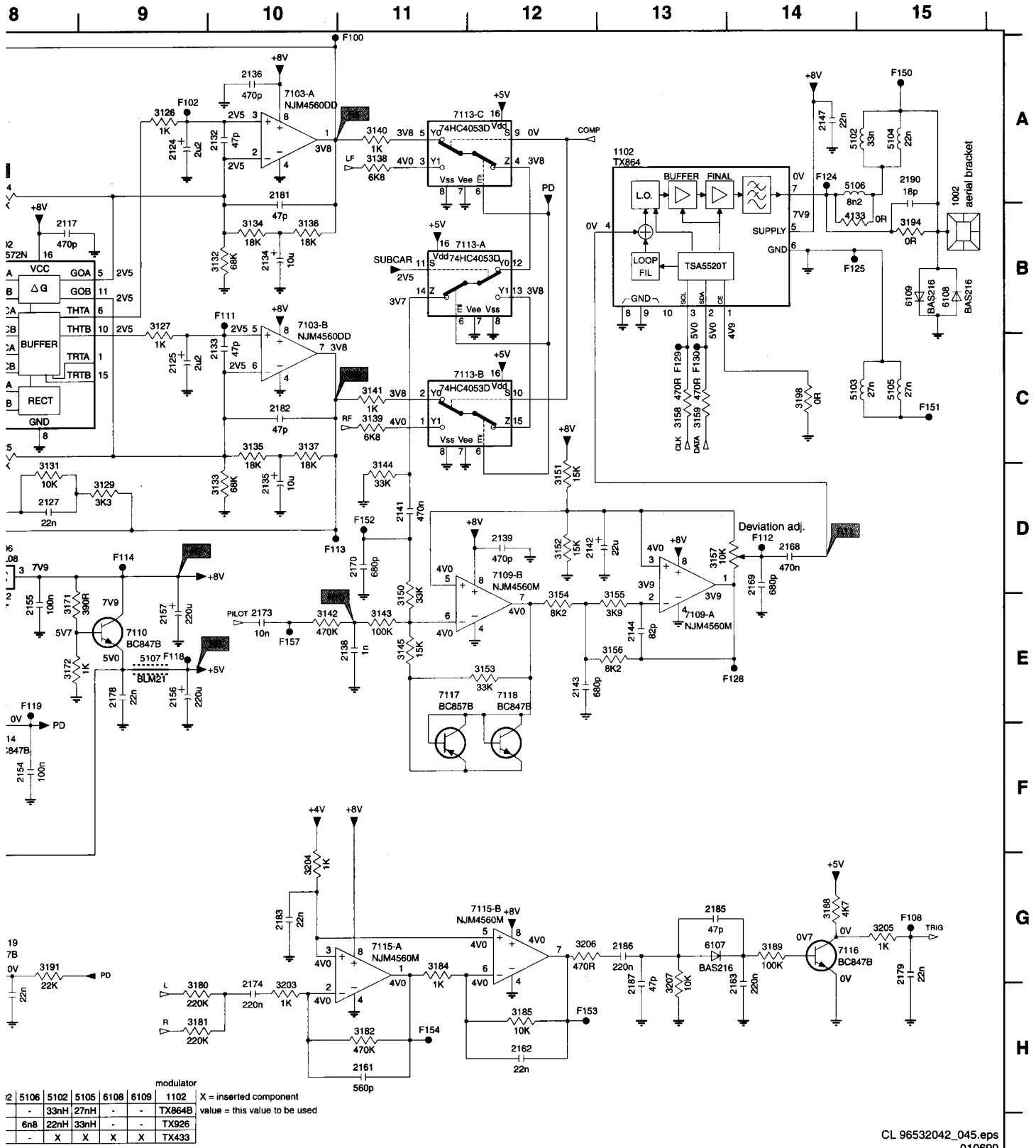


MICRO CONTROLLER

| VERSION | I ² C adres | 3162 | 3165 | 3166 | 3199 | 4133 | 2190 | 100 |
|----------------|------------------------|------|------|------|------|------|------|-----|
| 3104 217 06020 | 864 Mhz | C6 | X | - | - | 560R | X | - |
| 3104 217 06030 | 926 Mhz | C6 | X | X | X | 1k | - | - |
| 3104 217 06190 | 433 Mhz | C6 | X | X | X | 5k6 | - | X |

1 2 3 4 5 6 7

| | | | | | | | | | | | | | | |
|--------|----------|---------|----------|----------|----------|----------|------------|------------|------------|----------|----------|----------|----------|---------|
| 13 E11 | 3156 E13 | 3165 G5 | 3177 H3 | 3191 G8 | 3202 A6 | 5103 C14 | 6108 B15 | 7105 F5 | 7113-C A12 | F101 A6 | F111 B10 | F123 E4 | F133 H4 | F158 G3 |
| 14 D11 | 3157 D13 | 3166 G5 | 3180 H9 | 3193 H2 | 3203 H10 | 5104 A15 | 6109 B15 | 7106 D8 | 7114 F8 | F102 A9 | F112 D14 | F124 A14 | F150 A15 | |
| 15 E11 | 3158 C13 | 3168 E7 | 3181 H9 | 3194 B15 | 3204 G10 | 5105 C15 | 6101 A6 | 7108 G3 | 7115-A G11 | F103 A1 | F113 D10 | F125 B14 | F151 C15 | |
| 30 E11 | 3159 C13 | 3169 F7 | 3182 H11 | 3196 F7 | 3205 G15 | 5106 A14 | 7101-B A6 | 7109-A E13 | 7115-B G12 | F105 B1 | F114 D9 | F127 G7 | F152 D11 | |
| 31 D12 | 3160 G4 | 3170 E8 | 3184 G11 | 3197 F7 | 3206 G12 | 5107 E9 | 7101-C A4 | 7109-B D12 | 7116 G14 | F106 B2 | F116 G7 | F128 E14 | F153 H2 | |
| 32 D12 | 3161 G4 | 3171 E8 | 3185 H12 | 3198 C14 | 3207 H13 | 6101 D7 | 7101-D C4 | 7110 E9 | 7117 F1 | F107 B1 | F118 E9 | F129 C13 | F154 H11 | |
| 33 E12 | 3162 F5 | 3172 E8 | 3188 G14 | 3199 E5 | 4133 B14 | 6102 E7 | 7102 B8 | 7112 F1 | 7118 E12 | F108 G15 | F119 E8 | F130 C13 | F155 F2 | |
| 34 E12 | 3163 G5 | 3175 G3 | 3189 G14 | 3200 G7 | 5101 H4 | 6106 G4 | 7103-A A10 | 7113-A B12 | 7119 G8 | F109 C4 | F120 E7 | F131 H7 | F156 E5 | |
| 35 E13 | 3164 G5 | 3176 G3 | 3190 G8 | 3201 C6 | 5102 A14 | 6107 G13 | 7103-B B10 | 7113-B C12 | F100 A11 | F110 C6 | F122 E4 | F132 H7 | F157 E10 | |

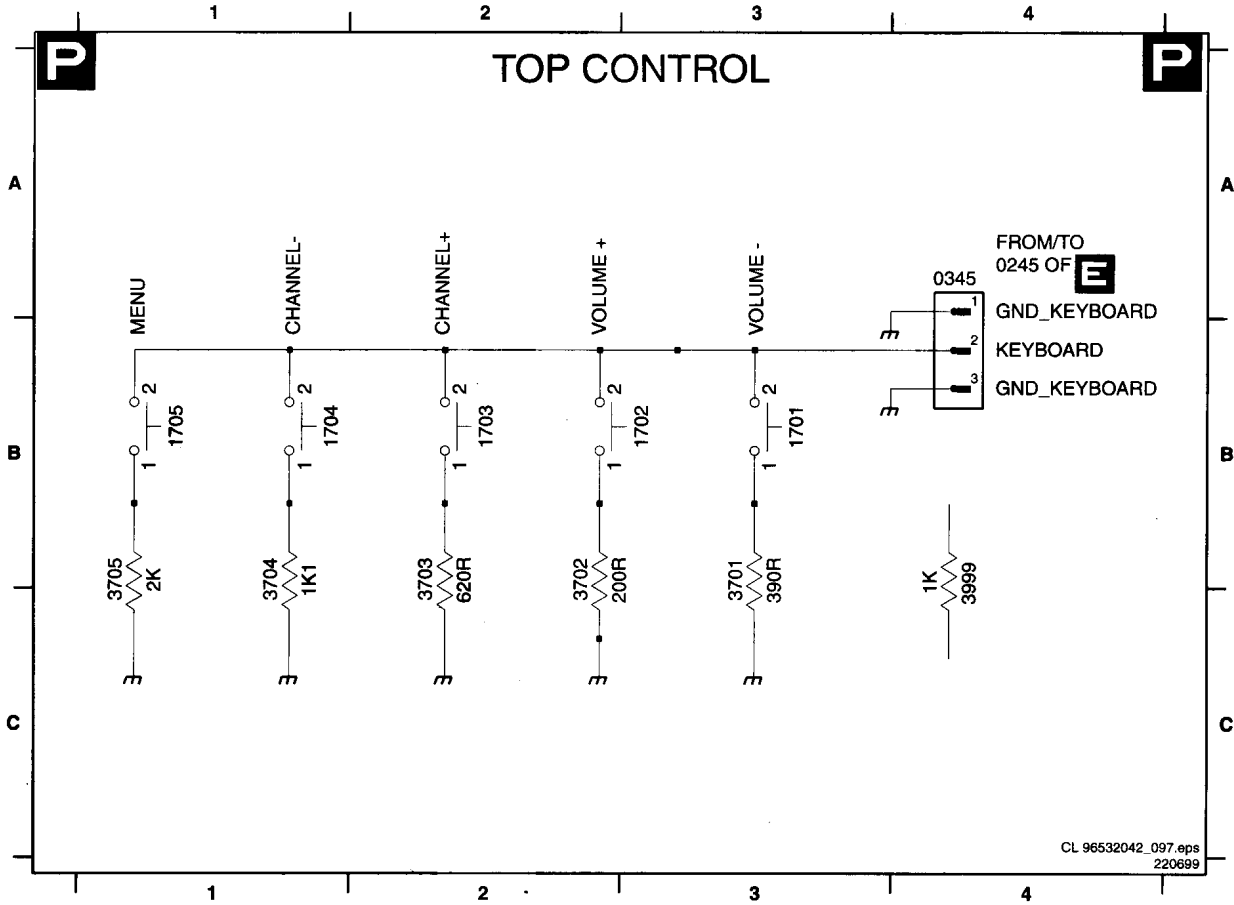


| modulator | | | | | | |
|-----------|------|------|------|------|------|--------|
| 12 | 5106 | 5102 | 5105 | 6108 | 6109 | 1102 |
| - | 33nH | 27nH | - | - | - | TX964B |
| 6n8 | 22nH | 33nH | - | - | - | TX926 |
| - | X | X | X | X | X | TX433 |

X = inserted component
value = this value to be used

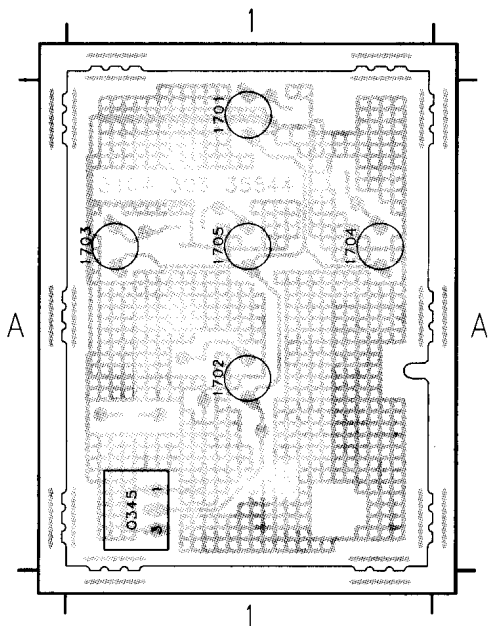
Top Control

0345 A4 1702 B3 1704 B1 3701 B3 3703 B2 3705 B1
 1701 B3 1703 B2 1705 B1 3702 B2 3704 B1 3999 B4

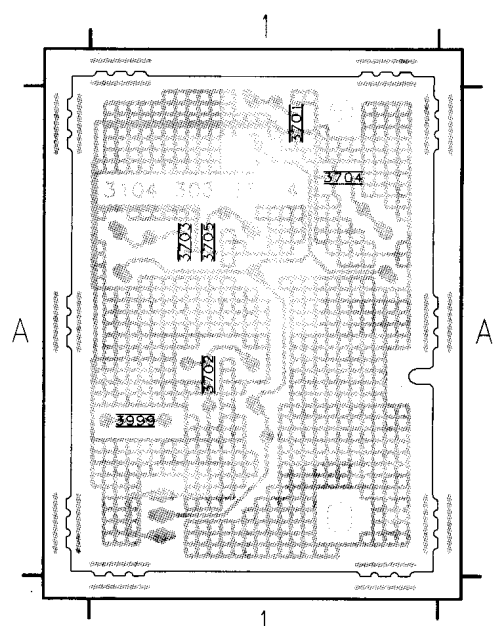


Componentside

Copperside

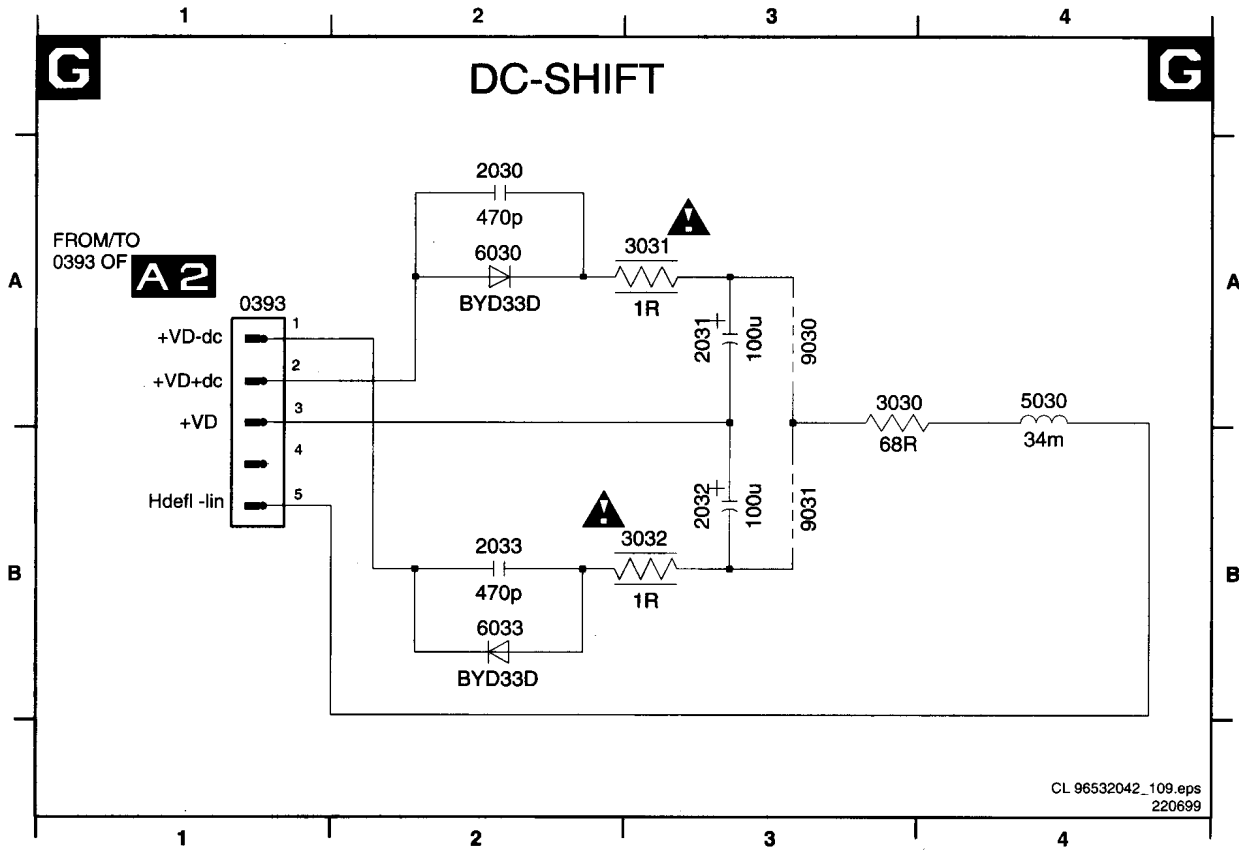


0345 A1
 1701 A1
 1702 A1
 1703 A1
 1704 A1
 1705 A1
 3701 A1
 3702 A1
 3703 A1
 3704 A1
 3705 A1
 3999 A1

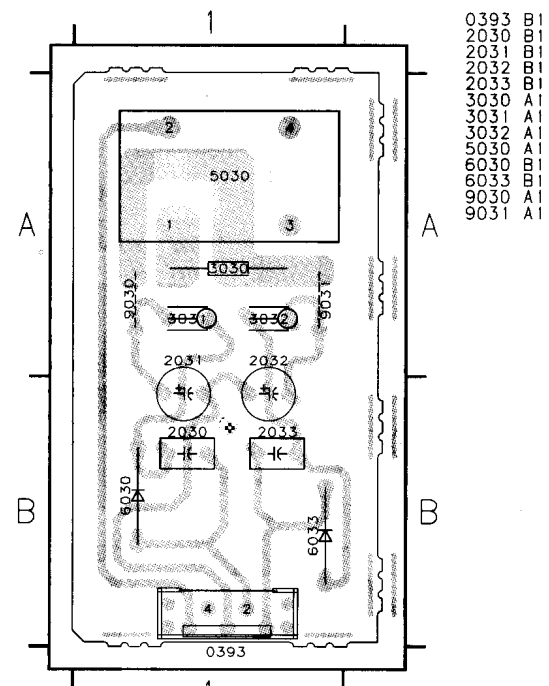


3701 A1
 3702 A1
 3703 A1
 3704 A1
 3705 A1
 3999 A1

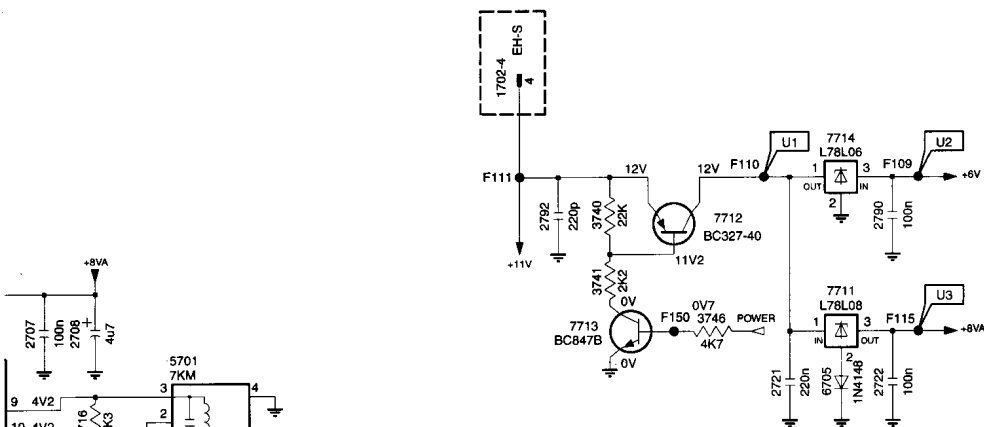
0393 A1 2031 A3 2033 B2 3031 A3 5030 A4 6033 B2 9031 B3
 2030 A2 2032 B3 3030 A3 3032 B3 6030 A2 9030 A3



DC-Shift (componentside)



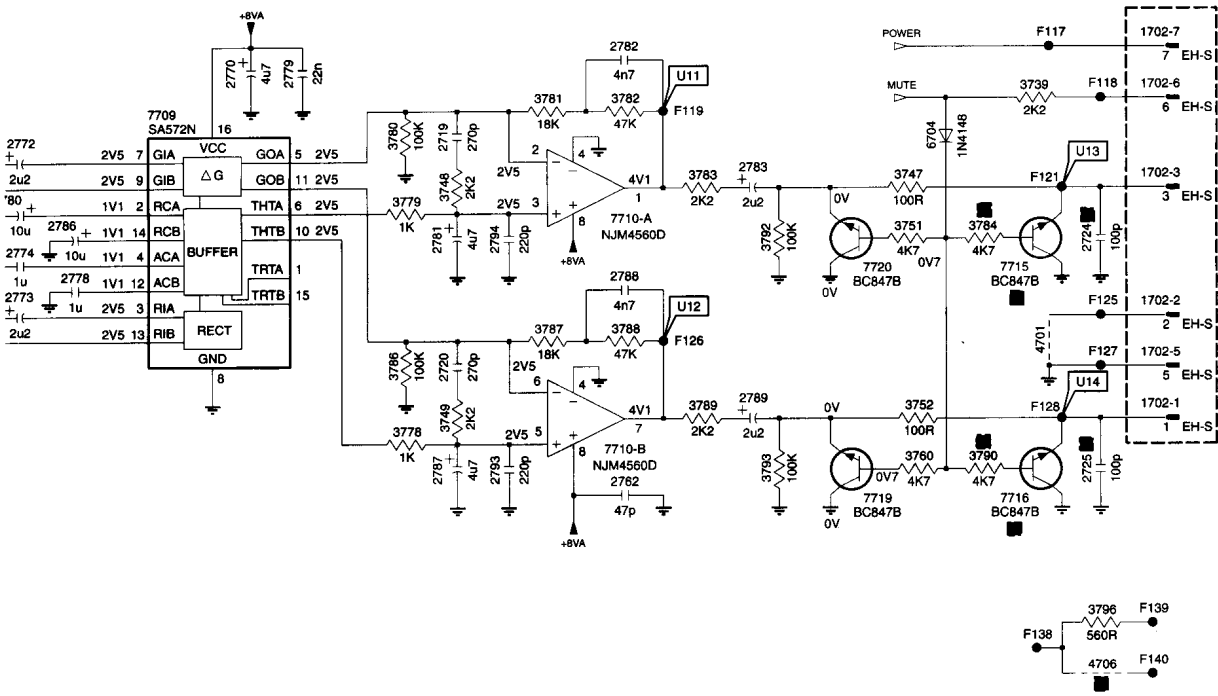
12 13 14 15 16 17 18 19 20



| | 864MHz | 926MHz | 433MHz |
|------|----------------|----------------|----------------|
| | 3104 217 06050 | 3104 217 06060 | 3104 217 06200 |
| 3724 | 100k | 39k | 39k |
| 3763 | --- | 10k | --- |
| 3796 | 560R | 1k | 5k6 |
| 5705 | --- | X | X |
| 5708 | X | --- | --- |
| 3756 | --- | --- | 10k |
| 3757 | 10k | 10k | --- |
| 3762 | 10k | --- | 10k |

UTE LEVEL

■ NOT USED

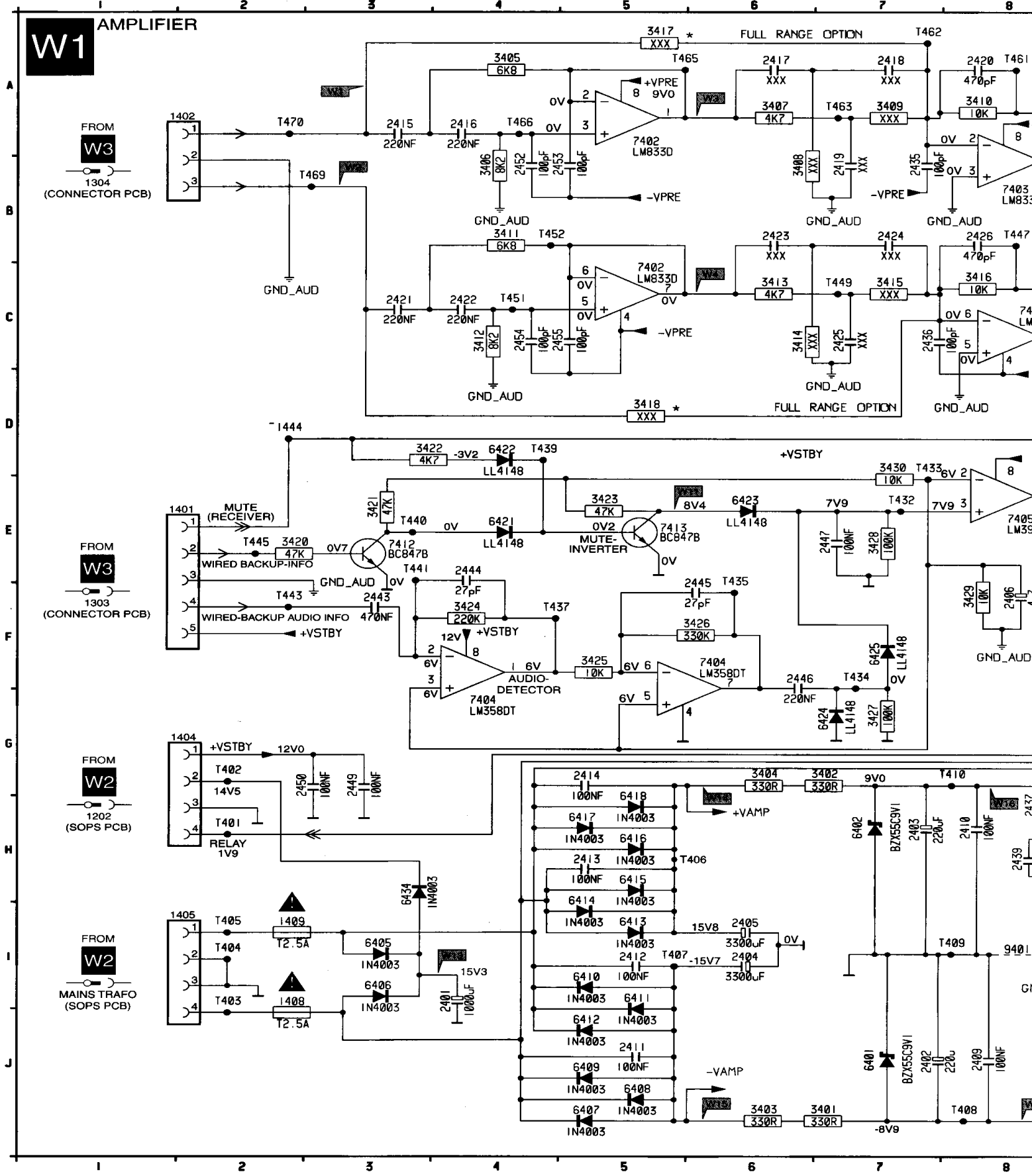


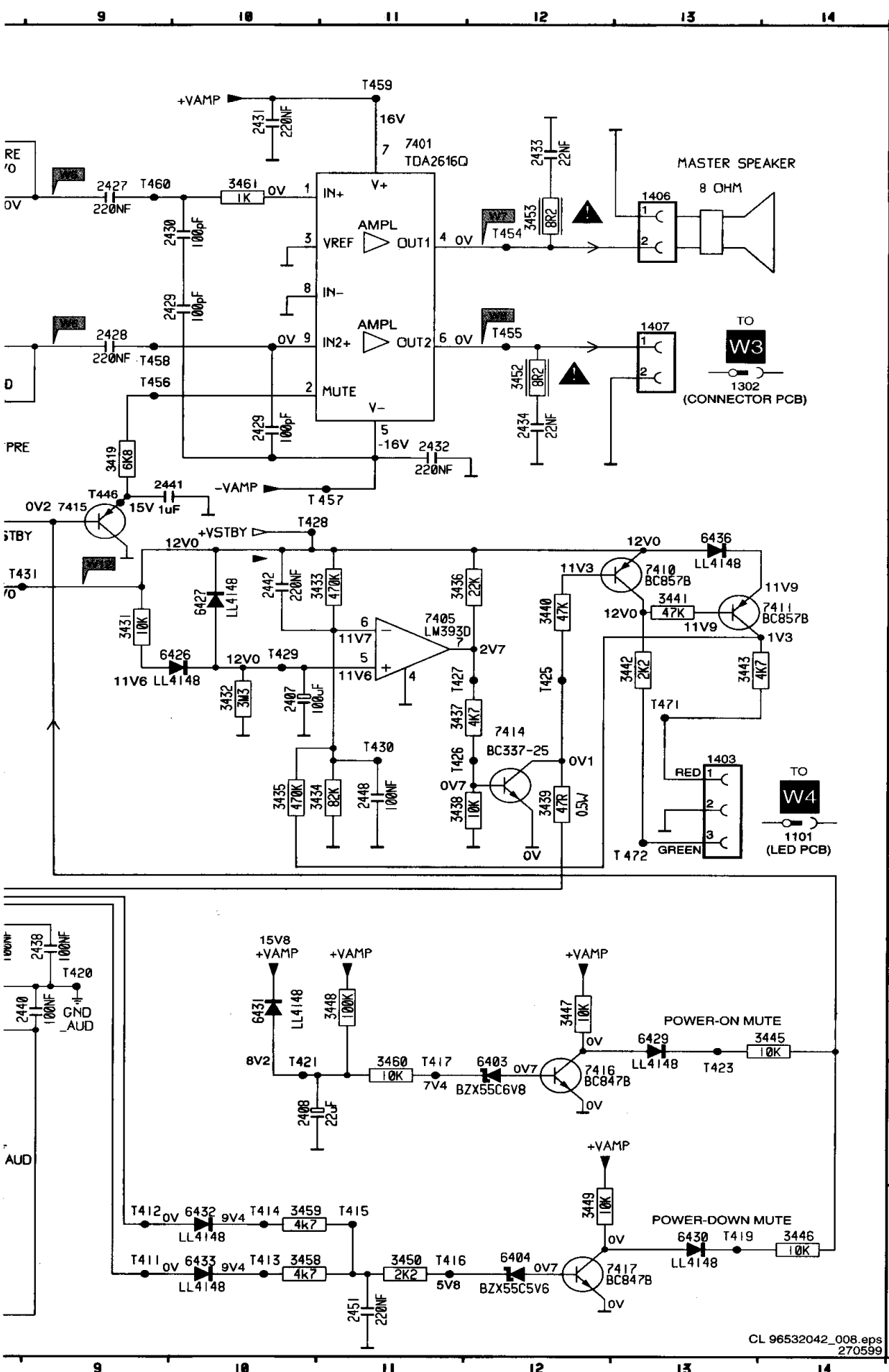
CL 96532042_046.eps
280599

- 1700 B1
- 1701 D7
- 1702-1 K20
- 1702-2 J20
- 1702-3 J20
- 1702-4 A15
- 1702-5 K20
- 1702-6 H20
- 1702-7 H20
- 1710 A2
- 1701 C10
- 1702 C10
- 1703 C9
- 1704 C10
- 1705 D8
- 1706 A5
- 1707 C11
- 1708 C12
- 1709 I2
- 1710 I2
- 1711 H2
- 1712 H3
- 1713 I3
- 1714 I4
- 1715 I4
- 1716 K5
- 1717 L4
- 1718 K3
- 1719 I15
- 1720 K15
- 1721 C17
- 1722 C18
- 1723 J1
- 1724 J20
- 1725 K20
- 1731 I7
- 1732 J9
- 1733 K9
- 1741 K7
- 1750 E3
- 1751 F7
- 1752 G7
- 1753 G7
- 1754 E3
- 1755 F7
- 1762 L16
- 1770 H13
- 1771 J10
- 1772 I11
- 1773 J11
- 1774 J11
- 1775 J9
- 1776 I10
- 1777 J10
- 1778 J12
- 1779 H13
- 1780 I11
- 1781 I14
- 1782 H16
- 1783 I17
- 1786 J12
- 1787 K14
- 1788 J16
- 1789 K17
- 1790 B18
- 1792 B15
- 1793 K15
- 1794 J15
- 1701 C4
- 1702 B10
- 1703 B2
- 1704 C4
- 1705 A6
- 1706 A6
- 1707 A6
- 1708 B6
- 1709 B5
- 1710 B17
- 1711 E11
- 1712 E10
- 1713 E11
- 1714 E11
- 1715 E18
- 1716 D12
- 1717 B9
- 1718 B9
- 1719 J1
- 1720 K2
- 1721 K3
- 1722 M4
- 1723 L4
- 1724 M4
- 1725 J20
- 1727 J5
- 1728 J5
- 1729 I3
- 1730 I2
- 1731 I3
- 1732 I8
- 1733 J8
- 1734 I8
- 1735 J8
- 1736 J3
- 1737 J6
- 1738 K6
- 1739 I9
- 1740 B16
- 1741 C16
- 1742 J8
- 1743 K8
- 1744 J8
- 1745 K8
- 1746 C17
- 1747 I18
- 1748 I15
- 1749 K15
- 1750 D3
- 1751 J18
- 1752 K18
- 1753 G7
- 3754 G7
- 3755 F7
- 3756 F3
- 3757 F4
- 3758 F2
- 3759 F2
- 3760 K18
- 3761 F10
- 3762 F3
- 3763 F2
- 3771 J10
- 3772 J11
- 3775 J9
- 3776 J10
- 3778 K14
- 3779 I14
- 3780 I14
- 3781 I15
- 3782 I16
- 3783 I15
- 3784 I19
- 3786 K14
- 3787 I15
- 3788 J16
- 3789 K17
- 3790 K19
- 3792 J17
- 3793 K17
- 3794 L4
- 3795 D6
- 3796 M20
- 4701 J19
- 4706 M20
- 5701 C12
- 5702 I7
- 5703 K7
- 5704 F4
- 5705 B2
- 5706 B5
- 5707 B10
- 5708 C2
- 6701 B8
- 6702 E2
- 6703 G7
- 6705 F7
- 6705 C18
- 7701 D10
- 7702 I1
- 7703 M3
- 7704 G6
- 7705 I8
- 7706 K8
- 7707 B6
- 7708 F5
- 7709 I12
- 7710-A I16
- 7710-B K16
- 7711 C15
- 7712 B17
- 7713 C16
- 7714 A18
- 7715 J19
- 7716 L19
- 7717 F9
- 7718 D7
- 7719 L18
- 7720 J18
- F100 B2
- F101 B5
- F102 B11
- F103 B9
- F104 C8
- F105 C9
- F106 C3
- F107 D9
- F108 D3
- F109 B18
- F110 B17
- F111 B15
- F112 D4
- F113 D4
- F114 D10
- F115 C18
- F116 F6
- F117 H19
- F118 H20
- F119 I16
- F120 I9
- F121 I20
- F122 I9
- F123 J6
- F124 K6
- F125 J20
- F126 J16
- F127 K20
- F128 K20
- F129 K4
- F130 K4
- F131 I3
- F132 E6
- F133 E6
- F134 E6
- F135 E6
- F136 E6
- F137 F6
- F138 I19
- F139 M20
- F140 M20
- F141 A2
- F150 C16
- F151 G8

12 13 14 15 16 17 18 19 20

Active surroundbox amplifier

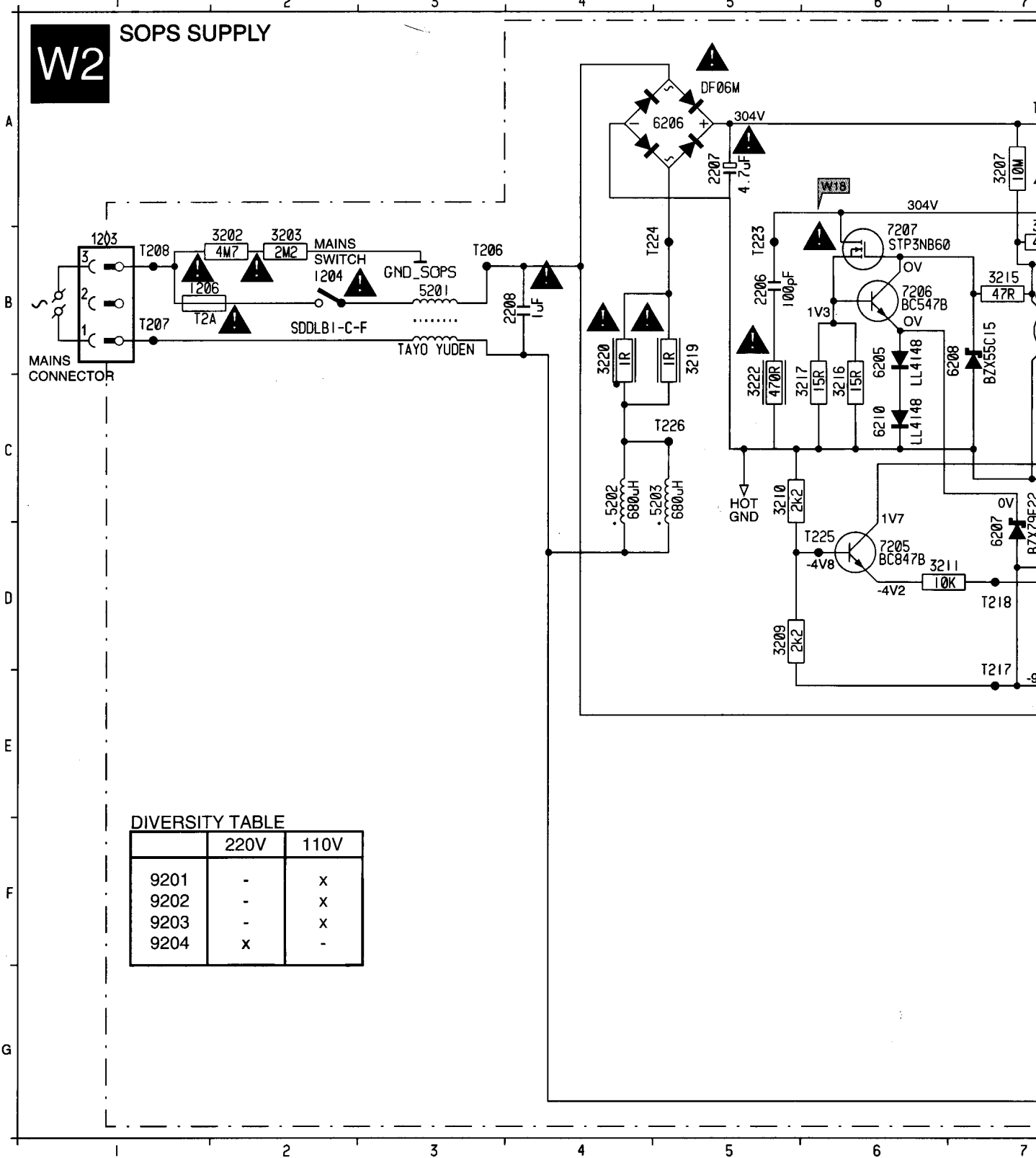




| | | | |
|------|-----|------|-----|
| 1401 | E2 | 6410 | I5 |
| 1402 | A2 | 6411 | I5 |
| 1403 | F13 | 6412 | I5 |
| 1404 | G2 | 6413 | I5 |
| 1405 | I2 | 6414 | J5 |
| 1406 | B13 | 6415 | H5 |
| 1407 | C13 | 6416 | H5 |
| 1408 | J2 | 6417 | H5 |
| 1409 | H2 | 6418 | H5 |
| 1410 | I4 | 6419 | E4 |
| 1411 | J7 | 6420 | D4 |
| 1412 | H7 | 6421 | E6 |
| 1413 | I6 | 6422 | F6 |
| 1414 | I6 | 6423 | F7 |
| 1415 | I6 | 6424 | G7 |
| 1416 | I6 | 6425 | F7 |
| 1417 | F8 | 6426 | E10 |
| 1418 | F10 | 6427 | H10 |
| 1419 | I11 | 6428 | H13 |
| 1420 | J8 | 6429 | J13 |
| 1421 | H8 | 6430 | I10 |
| 1422 | J5 | 6431 | J10 |
| 1423 | I5 | 6432 | J10 |
| 1424 | H5 | 6433 | J10 |
| 1425 | G5 | 6434 | H3 |
| 1426 | A3 | 6435 | D13 |
| 1427 | A4 | 6436 | A11 |
| 1428 | A6 | 6437 | A5 |
| 1429 | A7 | 6438 | C8 |
| 1430 | B7 | 6439 | F4 |
| 1431 | B7 | 6440 | E11 |
| 1432 | A8 | 6441 | E13 |
| 1433 | C3 | 6442 | G2 |
| 1434 | C4 | 6443 | H2 |
| 1435 | B6 | 6444 | G2 |
| 1436 | B7 | 6445 | J2 |
| 1437 | C7 | 6446 | I2 |
| 1438 | B8 | 6447 | I2 |
| 1439 | B9 | 6448 | H5 |
| 1440 | C9 | 6449 | I5 |
| 1441 | T01 | 6450 | J8 |
| 1442 | T02 | 6451 | J8 |
| 1443 | T03 | 6452 | H8 |
| 1444 | T04 | 6453 | T09 |
| 1445 | T05 | 6454 | G8 |
| 1446 | T06 | 6455 | H8 |
| 1447 | T07 | 6456 | H9 |
| 1448 | T08 | 6457 | H9 |
| 1449 | T09 | 6458 | J9 |
| 1450 | T10 | 6459 | J9 |
| 1451 | T11 | 6460 | J10 |
| 1452 | T12 | 6461 | J10 |
| 1453 | T13 | 6462 | J11 |
| 1454 | T14 | 6463 | J12 |
| 1455 | T15 | 6464 | J13 |
| 1456 | T16 | 6465 | J13 |
| 1457 | T17 | 6466 | J13 |
| 1458 | T18 | 6467 | J13 |
| 1459 | T19 | 6468 | J13 |
| 1460 | T20 | 6469 | J13 |
| 1461 | T21 | 6470 | J13 |
| 1462 | T22 | 6471 | F13 |
| 1463 | T23 | 6472 | G13 |

Active surroundbox supply

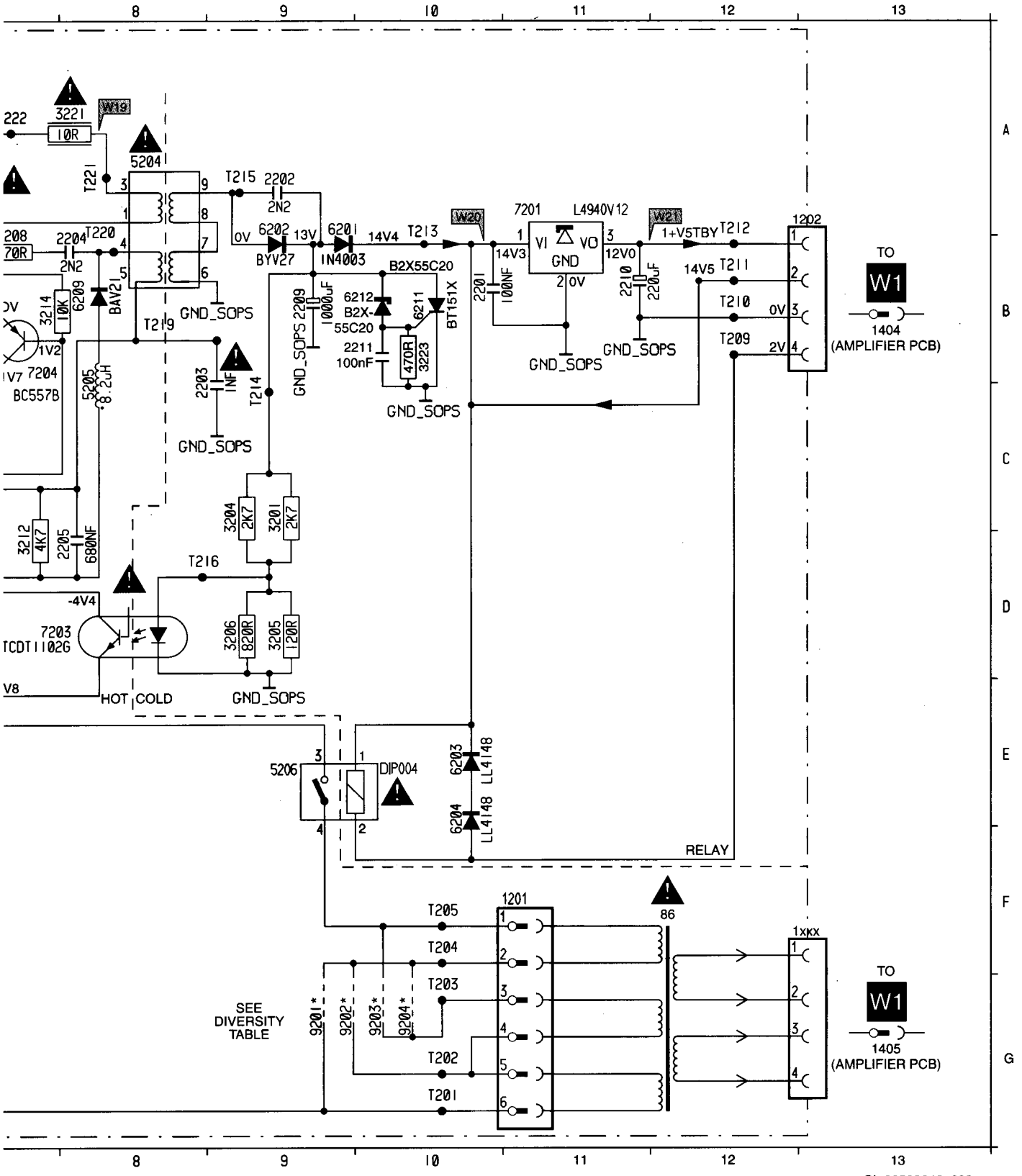
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|----------|----------|----------|---------|---------|---------|----------|----------|----------|----------|----------|
| 1201 F11 | 2201 B11 | 2207 A5 | 3202 B2 | 3208 B7 | 3215 B7 | 3222 C6 | 5204 A8 | 6204 E11 | 6210 C6 | 7205 D6 |
| 1202 B13 | 2202 A9 | 2208 B4 | 3203 B2 | 3209 D6 | 3216 C6 | 3223 B10 | 5205 B8 | 6205 B6 | 6211 B10 | 7206 B6 |
| 1203 A1 | 2203 B9 | 2209 B9 | 3204 C9 | 3210 C6 | 3217 C6 | 0086 F12 | 5206 E10 | 6206 A5 | 6212 B10 | 7207 B6 |
| 1204 B3 | 2204 B8 | 2210 B12 | 3205 D9 | 3211 D7 | 3219 B5 | 5201 B3 | 6201 A10 | 6207 D7 | 7201 A11 | 9201 G10 |
| 1206 B2 | 2205 D8 | 2211 C10 | 3206 D9 | 3212 D8 | 3220 B5 | 5202 C5 | 6202 A9 | 6208 B7 | 7203 D8 | 9202 G10 |
| 1209 B10 | 2206 B6 | 3201 C9 | 3207 A7 | 3214 B8 | 3221 A8 | 5203 C5 | 6203 E11 | 6209 B8 | 7204 B8 | 9203 G10 |



DIVERSITY TABLE

| | 220V | 110V |
|------|------|------|
| 9201 | - | X |
| 9202 | - | X |
| 9203 | - | X |
| 9204 | X | - |

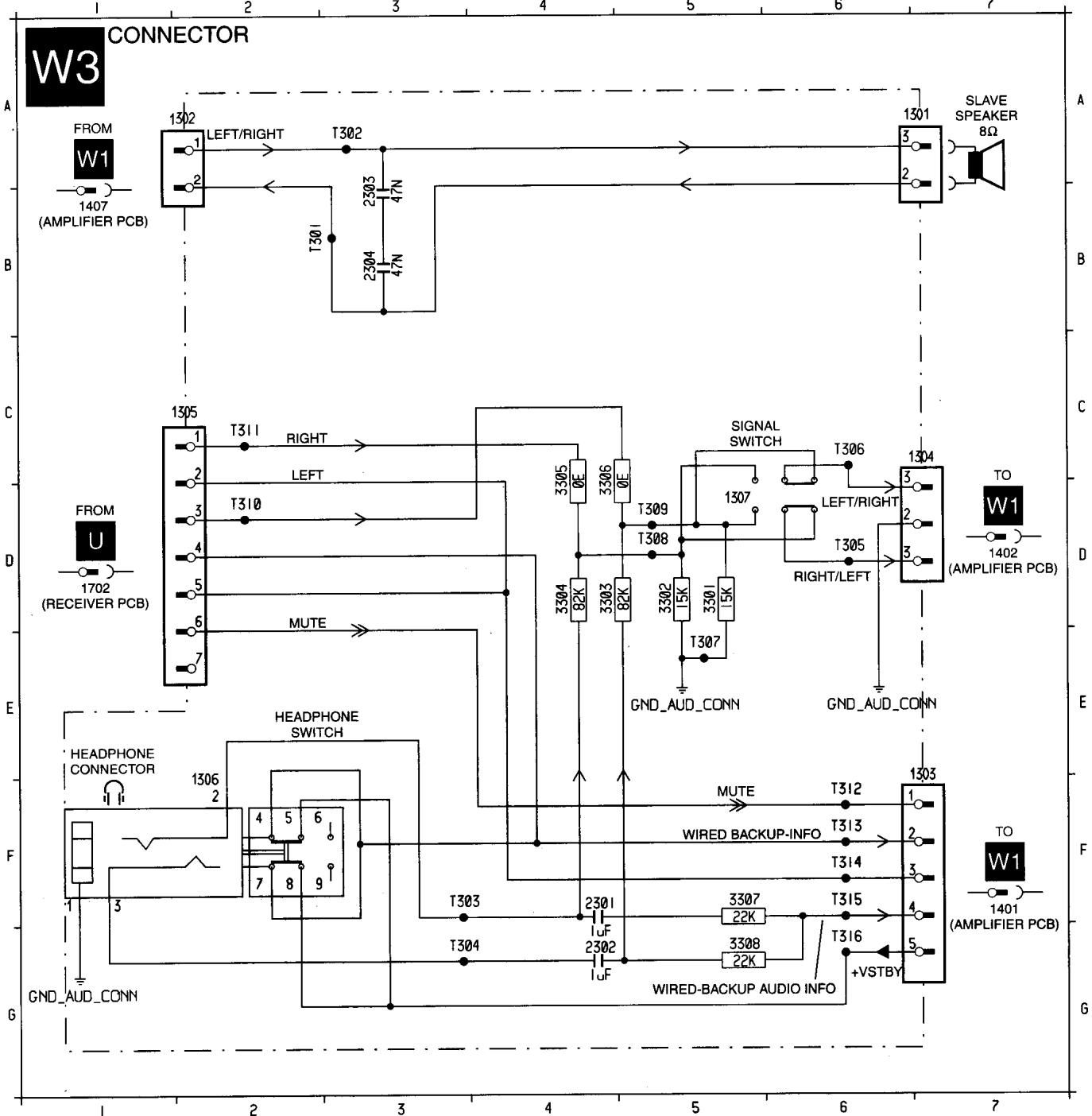
| | | | | |
|----------|----------|----------|-----------|---------|
| 9204 G10 | T206 A4 | T212 B12 | T218 T218 | T224 B5 |
| T201 G10 | T207 A1 | T213 B10 | T219 B8 | T225 D6 |
| T202 G10 | T208 A1 | T214 C9 | T220 B8 | T226 C5 |
| T203 G10 | T209 B12 | T215 A9 | T221 A8 | |
| T204 F10 | T210 B12 | T216 D9 | T222 A7 | |
| T205 F10 | T211 B12 | T217 E7 | T223 B6 | |



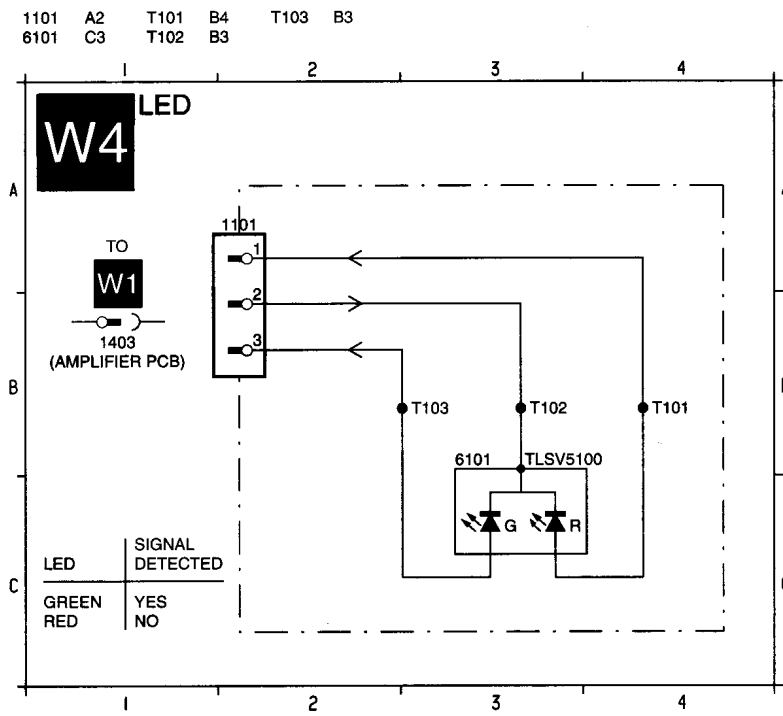
SEE DIVERSITY TABLE

Active surroundbox connector

| | | | | | | | | | | | | | | | | |
|------|-----|------|----|------|----|------|----|------|----|------|----|------|------|----|------|----|
| 1301 | A 7 | 1305 | D2 | 2302 | G4 | 3302 | D5 | 3306 | C5 | T302 | A3 | T306 | T310 | D2 | T314 | F6 |
| 1302 | A2 | 1306 | F2 | 2303 | B3 | 3303 | D4 | 3307 | F5 | T303 | F3 | T307 | T311 | C2 | T315 | F6 |
| 1303 | F7 | 1307 | D5 | 2304 | B3 | 3304 | D4 | 3308 | G5 | T304 | G3 | T308 | T312 | F6 | T316 | G6 |
| 1304 | D7 | 2301 | F4 | 3301 | D5 | 3305 | C4 | T301 | B3 | T305 | D6 | T309 | T313 | F6 | | |



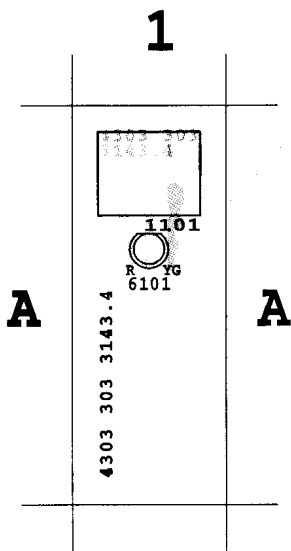
Active surroundbox led



CL 96532042_011.eps
270599

Led panel (W4 componentside)

1101 A 1
6101 A 1



1 CL 96532042_139.eps
050799

8. Electrical alignments

8.1 General alignment conditions

All electrical alignments should be made under the following conditions:

- Power supply voltage: 220-240V \pm 10%; 50-60 Hz \pm 5%.
- Warm-up time >10 minutes.
- Voltages and oscillograms are measured in relation to tuner earth (with exception to the voltages on the primary side of the power supply). Never use the cooling fins/plates as ground.
- Test probe: Ri > 10 M Ω , Ci < 20 pF.

8.2 Alignments on the Supply Panel (B)

8.2.1 +141V (Vbat) supply voltage

Top Supply Panel

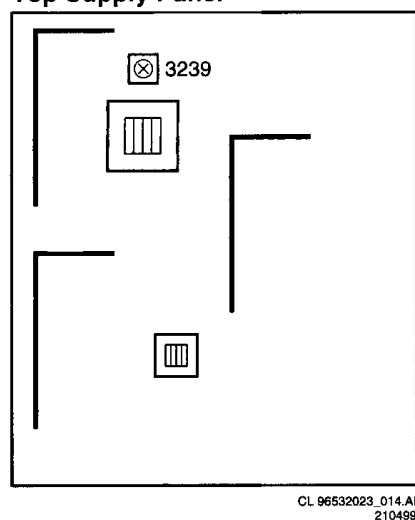


Figure 8-27

- Connect a voltmeter across C2223 (diagram B, +Vbat).
- Switch on the set.
- Using potentiometer R3239 (diagram B) adjust the Vbat supply voltage to +141V \pm 0V5. (see Fig. 8-27)

8.3 Alignments on the Large Signal Panel (A)

8.3.1 Focusing

Deflection/Audio panel

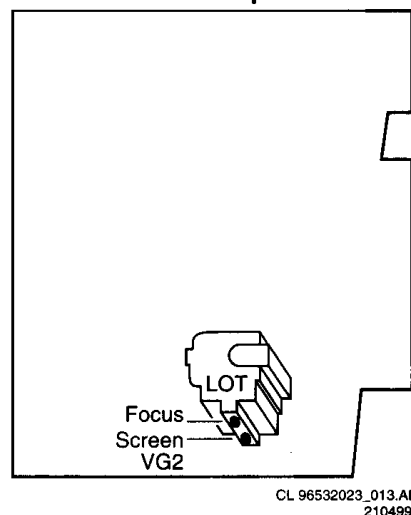


Figure 8-28

- Tune the set to a crosshatch test-pattern.
- Adjust the focus potentiometer (diagram A1, upper knob of the LOT, see Fig. 8.28) for an overall optimum focusing of the picture.

8.3.2 Vg2 adjustment

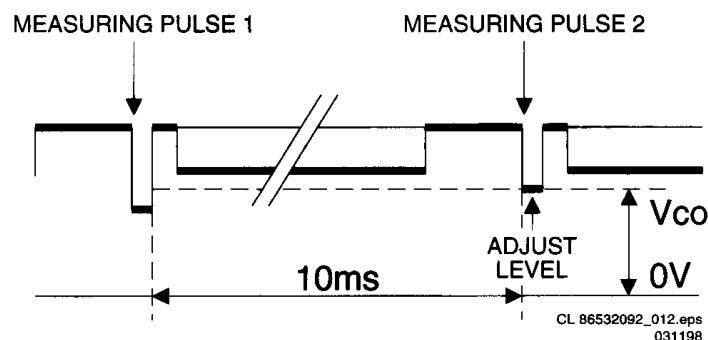


Figure 8-29

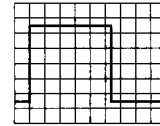
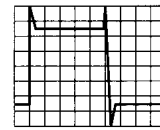
New method (with OSD-feedback):

- Put the set in the SAM mode (via the -button of the DST and entry-code 3 1 4 0), or via short circuiting the SAM pins 1 and 2 of connector 0356 on the SSP (diagram K7).
- Chose sub-menu 'General', and further menu-line 'Vg2 test pattern on/off'
- Activate the vg2 test pattern by toggling via right cursor-button to 'on'
- Place a mirror opposite of the TV-set, so that the OSD-feedback can be read
- First turn the Vg2-potmeter to the left. (osd-feedback is not readable now)
- If the vg2-potmeter is turned very slowly clockwise the next sequence of osd-messages will follow: out high--> in high -->in low --> out low. At the moment you see 'in low', the vg2-potmeter has been aligned correctly

Old method (with oscilloscope):

Elucidation: In the frame blanking period of the R, G and B signals applied to the CRT, alternately per frame two measuring pulses with different DC levels are inserted by the "HOP" video processor IC7300. During the first frame flyback a pulse is inserted used as reference for the Vg2 adjustment and in the next frame flyback a second pulse is inserted used as reference for the internal white "D" adjustment. For the Vg2 adjustment the pulse with the highest DC-level is used.

- Put the set in the SDM mode (via the -button on the DST, or via short circuiting the SDM pins 2 and 3 of connector 0356 on the SSP (diagram K7).
- Insert a black test-pattern signal (carrier 475.25 MHz) to the tuner input.
- Connect an oscilloscope (position 50V/Div DC and 2ms/Div) alternately to the CRT cathodes (red pin 8, green pin 6, blue pin 11) and measure for each cathode the DC level of the measuring pulse (see elucidation above and Fig. 8.29) and write down each value. Remark: Trigger the scope external via a CVBS signal (for instance via pin 19 of the scart1 connection).
- Adjust the Vg2 potentiometer (diagram A1, lower knob on the LOT) so that the measuring pulse with the highest noted level is on 156V level.



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Figure 8-31

8.4 Alignments on the small signal panel (K)

8.4.1 40.4 MHz neighbour-channel sound trap

- Tune to a checker board test-pattern (system BG - and with a carrier frequency of 475.25 MHz).
- Connect an oscilloscope (trigger line frequent) to pin 19 (CVBS out) of the scart1 connection.
- Align the coil L5103 (diagram K1) completely downwards (see Fig. 8.30).
- Align the coil upwards till under- and overshoot arise at the black/white and white/black transitions in the video signal (Fig. 8.31).
- Align the coil downwards again till above mentioned under- and overshoot is just disappeared.

8.4.2 Alignments needing SAM-mode + measuring equipment

(These alignments could be of interest when ICs (7501, TDA9320AH), or the EAROM (7008, ST24E16) are exchanged on the SSP).

'IF AFC' (navigation to this menu item via Alignment --> General --> IF AFC)

Supply via a Service generator (e.g. PM5518) a TV-signal, with a signal-strength of at least 1 mV. Frequency 475.25 MHz. Use BG if possible, otherwise match the system of your generator with the received signal in the set.

In this procedure the Service-man is asked to go into Install menu and select 'Fine Tune'-menu-line. In this way the AFC of the set is disabled.

Procedure how to check correct alignment:

- If the IF-frequency-value in the 'Fine Tune'-line is between 475.18 MHz and 475.31 MHz, you do not need to re-align the AFC-value as mentioned above (SAM-menu).
- If this is NOT the case, decrease the 'Tuner IF'-value (in the SAM-menu) if the frequency on the 'Fine-tune'-line was lower than 475.18 MHz, or increase the 'Tuner IF'-value if the frequency on the 'Fine-tune'-line was higher than 475.31 MHz (initially first an 'Tuner IF'- alignment can be done, making the multi-burst signal flat).

Alignment procedure:

- During the 'IF AFC'-parameter adjustment one can see OSD feedback on the screen.
- The OSD feedback can give 4 kind of messages:

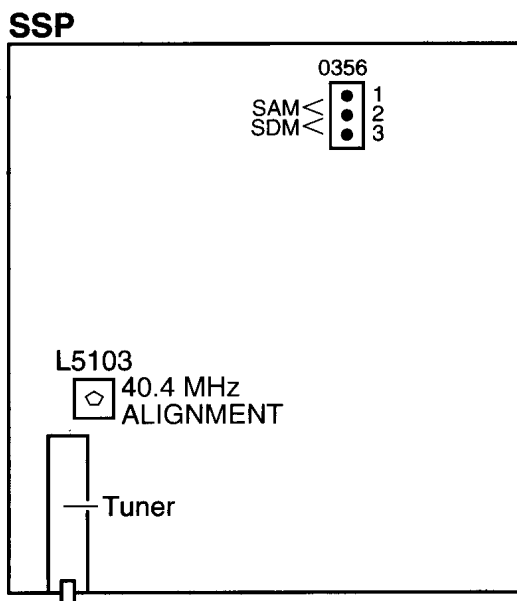
| AFC-window | AFC-frequency versus reference |
|------------|--------------------------------|
| Out | High |
| In | High |
| In | Low |
| Out | Low |

The first item (in or out) informs you whether you are in or out the AFC-window

The second item (high/low) informs you about whether the AFC-frequency is to high or to low

- First you must align the 'IF AFC'-parameter such that you come into the AFC-window (= 'in')
- Then you must look for the point where the 'IF AFC' parameter influences the high/low message. This level is the value you are looking for.

Service-tip: If you do not trust the accuracy of the frequency of your Service-generator, first 'measure' with 'Fine tune'-line (manual install-menu) of a good set your Service generator.



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Figure 8-30

'Tuner AGC'

Supply a TV-signal, with a frequency of 475.25 MHz and a signal-strength of about 2 mV.

Measure the DC-voltage on pin 1 of the Tuner (position 1102). With the 'Tuner AGC'-alignment in the SAM-menu, this voltage can be aligned. Alignment is correct when DC-voltage is just below 3.8 V

8.4.3 Alignments and settings in the Service Alignment Menu**General**

Entering the SAM can be done in 2 ways:

- Briefly shorting the service pins 'SERVICE ALIGNMENT MODE' on the front side of the SSP (pins 1 and 2 of connector 0356)
- or:
- Pressing the key on the Dealer Service Tool (DST) (RC7150), followed by keying in the password "3140" and then pressing the key.

The Service Alignment Mode menu will now appear on the screen. The following information is now displayed:

1. The software date ('Date') and version ('ID.') of the RO (Example: MG31E11.0_xxxxx).
(This software-code stands for MG3.1 (chassis), E for Europe, 1-language, 1.0 software version, xxxxx latest 5 digits of 12nc code software.)
2. The accumulated total of operation hours ('Operation Hours').
3. ('Errors') followed by maximal 10 errors. The most recent error is displayed at the upper left. For explanation errors see chapter 5 (table 5.1).
4. ('Defect. Module'). Here the module that generates the error is displayed. (If there are multiple errors in the buffer that have not all been generated by a single module, there is probably another defect. The message 'Unknown' will then be displayed here).
5. ('Reset Error Buffer'). The error buffer can be reset by pressing the key.
6. ('Functional Test'). All devices are tested via the key. Eventual errors are displayed in the error buffer. The error buffer is not erased, the contents return when the Functional Test is terminated.
7. ('Alignments'). This enables the Alignments sub-menu to be called up.

The following alignments can be selected:

'General':

- 'Drive'
- 'Luminance Delays'
- 'EHT Compensation'
- 'Soft Clipper'
- 'Luma Gain'
- 'IF AFC'
- 'Tuner AGC'
- 'Blending Intensity'
- 'Peak White Limiter'
- 'Vg2 Test pattern'
- 'VDS/PIP alignments'(optional)

'Normal Geometry':

- General geometry alignments.

'Super wide geometry': (only valid for widescreen sets)

- Geometry alignments for the 'Super Wide' position in 16:9 sets (only valid for wide screen sets; alignments can be performed, however, it is better to set values as mentioned below).

'Options':

- Setting the initialisation codes in the set via text.

'Option numbers':

- All options together, expressed in two long numbers. The original factory setting for these numbers can be found on the picture tube sticker on the inside of the set.

'Store':

- Store all alignments.

The alignments are explained now in the sequence of the sub-menu:

General alignments in Service Alignment Menu:

- Once all alignments/settings have been completed than 'Store' must be selected to record all the values in the permanent memory of the set.
- If the option codes have been changed and stored, the set has to be switched on and off using the mains switch to activate the new settings (when switching on and off via Standby, the option code settings are NOT read by the microprocessor).
- If an empty EAROM (permanent memory) is detected, all settings are set to pre-programmed default (standard) values.
- A built-in test pattern can be called up in various sub-menus. The test pattern generator can be switched on using the item 'Test pattern on/off'. The test pattern only appears AFTER the specific alignment has been selected. The test patterns are generated by the Teletext-IC.

'Drive'

Method 1:

If you want to align tint-settings with a colour-analyser, the Test pattern must be switched on. You get a white block in middle of the image now.

Before doing the tint-settings the 'Cathode'-parameter must be aligned. This is dependent of the picture tube size.

| Lightoutput cd/m2 | |
|-------------------|-----------|
| 4:3 | 16:9 |
| 25" : 500 | 24" : 550 |
| 28" : 350 | 28" : 450 |
| 29" : 400 | 32" : 400 |

Tint-settings:

Set the red, green and blue parameters for the three tint-settings 'Normal', 'Warm' and 'Cool'. The next values must be aligned:

| | Cool | Normal | Warm |
|------|-------|--------|------|
| X | 280 | 289 | 303 |
| Y | 287 | 299 | 314 |
| Temp | 10200 | 8700 | 7200 |

Method 2:

Without having a colour-analyser one can set some parameters. This is the next best solution. The setting-parameters are average values coming from productio (statistics).

Before doing the tint-settings the 'Cathode'-parameter must be setted. For all picture tubes the following vallue must be entered: 5

The 'Tint' setting must be on 'normal'.

Tint-settings:

Set the white levels for the three tint-settings 'Normal', 'Warm' and 'Cool'. The next values must be entered:

Remark:

In case the HOP N2 IC is used in stead of the HOP N1 IC, automatically, two additional Menu lines are displayed, namely:

- 'Red BL offset'
- 'Green BL offset'

Herewith the black levels can be aligned very precise.

| | Cool | Normal | Warm |
|---|------|--------|------|
| R | 22 | 25 | 29 |
| G | 20 | 20 | 20 |
| B | 17 | 14 | 7 |

'Luminance delays'

With the 'Luminance delays' alignment the luminance information is placed on the chrominance information (brightness is pushed onto the colour). Use a colour bar/grey scale pattern as test signal.

- Lum. Delay Pal: Apply a PAL colour bar/grey scale pattern as a test signal. Adjust 'Lum. Delay PAL' until the transients of the colour part and black and white part of the test pattern are at the same position.
- Lum. Delay Secam: Apply a SECAM colour bar/grey scale pattern as a test signal. Adjust 'Lum. Delay PAL' until the transients of the colour part and black and white part of the test pattern are at the same position.
- Lum. Delay Bypass: Apply a NTSC colour bar/grey scale pattern as a test signal. Adjust 'Lum. Delay Bypass' until the transients of the colour part and black and white part of the test pattern are at the same position.

'EHT compensation'

Fixed value: 0

'Soft clipper'

Fixed setting: 'Pwl+0%'

'Luma gain'

Fixed value: 1

'Tuner IF'

See chapter 8.4.2.

'Tuner AGC'

See chapter 8.4.2. The SAM-mode is needed to make alignment, a test generator to make signal, a DC-Voltmeter to measure at pin 1 of the Tuner.

'Blending Intensity'

(This alignment could be used when micro controller or HOP-IC has been replaced).

It aligns the level of transparency of the menu-picture blended into the main-picture.

- Position the brightness-, contrast- and colour-setting in the middle-position. (picture-menu).
- Apply a signal with a 100 % white video-pattern
- Connect an oscilloscope to pin 3 of connector 0340 of the CRT panel and measure the Red output level
- Align 'blending intensity'-parameter such that the blended signal is 65 % of the black-white amplitude. Practically this will be about 1.3 V (blended signal) versus 2 V (full white signal).
- The parameter can be adjusted in between 0 and 31.

'Peak White Limiter'

Dependent of the picture-tube size (25", 29", and 24", 28", 32" wide screen tubes) the next value of the table must be entered:

| | |
|-----|----|
| 24" | 11 |
| 25" | 11 |
| 28" | 11 |
| 29" | 11 |
| 32" | 11 |

'Vg2 Test pattern'

Here the Vg2 Test pattern can be switched on.

We get feedback on the screen now, how to align correctly the vg2-potmeter of the LOT. This alignment is explained in chapter 8.3.2.

'VDS/PIP Alignments' (optional)

With the 'VDS/PIP' alignments the following settings are setted and stored in the local memory IC7991.

- 'Tuner IF': This method is exactly the same as the 'Tuner IF'-alignment that already has been explained for the SSP-Tuner.
- 'Tuner AGC': This alignment that needs test-equipment is described in chapter "Alignments on Full Dual Screen module (M), needing SAM-mode + measuring equipment"

Geometry alignments 'Normal Geometry' in the Service Alignment Menu

Warning:

At this moment the INTERNAL test pattern of the set will lead to a mis-aligned geometry of the picture. Please do not use internal test pattern. When using a service generator with a geometry-pattern (e.g. a crosshatch-pattern), the set can be aligned without problems.

Before doing this alignment, check whether the image is not slightly rotated. (Install-menu-->Setup-menu-->'Picture Tilt'-menuline)

Vertical amplitude and centring

Select 'Test Pattern On' and set the begin conditions for 4: sets (25", 28" and 29"):

- Vertical S-correction value on 13 for 29" set, and on 19 for the 25" and 28" sets.

The boundary-stripes of the test pattern should be positioned on the edge of the picture tube.

Set the begin conditions for 16:9 sets (24", 28", 32"):

- Vertical S-correction value on 7 for 24", on 8 for the 28" and on 7 for the 32" set.

The boundary-stripes of the test pattern should be positioned on the edge of the picture tube.

1. Align 'V slope' (when aligning the below half of the picture is blanked). The middle line of the test pattern must be matched with the edge of this blanking/picture transient in the middle of the picture. Pushing button again, gives you previous menu again. (This alignment is meant to align the zero-crossing of the frame-deflection to the mechanical middle of the picture tube.)
2. Align the vertical amplitude using 'V amplitude' so that the test pattern is fully visible.
3. Align the vertical centring using 'V shift' so that the test pattern is located vertically in the middle.
4. If necessary repeat the alignment of 'V amplitude', in order to get 'V shift' OK.

Vertical S correction

Select 'Test pattern on'.

Align the vertical S correction using 'V S-correction' so that the vertical amplitude at the top of the picture is equal to the amplitude in the middle of the picture.

Horizontal centring and amplitude

Select 'Test pattern on'.

1. Using 'H amplitude' align the horizontal amplitude so that the entire test pattern is visible.
2. Use an external test signal, with a centre-reference from a service-generator. Use 'H shift' to align the picture horizontally in the middle.
3. Repeat the 'H amplitude' alignment if necessary.

East/west alignment

Select 'Test pattern on'.

1. Use 'East/West Parabola' to align the vertical lines until straight.
2. Use 'East/West Corner' to align the vertical lines in the corners until straight.
3. Use 'East/West Trapezium' to align for a rectangular.
4. Use 'Horizontal Parallelogram' to align for straight vertical lines if necessary.
5. If necessary select 'East/West Corner' and align as required.
6. Repeat steps 1 to 4 if necessary.

Note:

The menu-line "East/West Corner" is used in sets with HOP N1 IC.

In case the HOP N2 IC is applicated, this line is replaced by the following menu-lines:

- 'Upper East/West Corner' (align)
- 'Lower East/West Corner' (align)
- 'Horizontal Bow' (neutral value 31, with this alignment the E/W parabol can be corrected such that it becomes symmetrical.)

Geometry alignments 'Super wide geometry' in the Service Alignment Menu

Only applicable to 16:9 sets.

- Vertical Shift: enter value here of normal geometry

Options in the Service Alignment Mode

| Menu-item | Subjects | Options | Physically in the set |
|-----------------|-------------------------------------|-------------------|--|
| Dual screen/PIP | Aux type | None | |
| | | Video Dual Screen | |
| | | PIP | |
| | Text dual screen | Yes | Text dual screen present (only valid for 16:9 sets) |
| | | No | Text dual screen not present |
| | Aux. Headph. Sound (optional) | Yes | |
| No | | | |
| Teletext/EPG | TXT | Yes | Teletext present |
| | | No | Teletext not present |
| | NextView present | Yes | NextView set |
| | | No | NextView not set |
| | NextView type | Flashram | IC7013 present on SSP (diagram K7) |
| | | No Flashram | IC 7013 not present on SSP (diagram K7) |
| Communication | Easylink Plus | Yes | Easylink Plus set |
| | | No | Easylink Plus not set |
| Picture tube | CRT Type | 4:3 | 4:3 picture tube |
| | | 16:9 | 16:9 picture tube |
| | Picture Rotation(only for 16:9) | Yes | Frame rotation circuitry present on LSP (IC7440 diagram A3 |
| | | No | Frame rotation circuitry not present (IC7440 diagram A3 |
| | Dynamic Focus | Yes | Dynamic focus picture tube present |
| | | No | Dynamic focus picture tube not present |
| Video Repro | Feature box type | Eco | IC7606 present on SSP (diagram K5) |
| | | Prozonic | IC7606 and IC7607 present on SSP (diagram K5) |
| | | Falconi | |
| | Field memories (only with falconic) | 2 | |
| | | 3 | |
| | Lightsensor | Yes | |
| | | No | |

- Vertical Amplitude: adjust image such that outer vertical ref-lines are just visible
- Vertical S correction: enter value here of normal geometry.
- Horizontal amplitude: enter value here or normal geometry subtracted by 4.
- East/west parabola: enter value here or normal geometry.

8.4.4 Option menu

Introduction:

The microprocessor communicates with a large number of I2C ICs in the set. To ensure good communication and make digital diagnosis possible, the microprocessor has to know which ICs have to be addressed. The presence of specific ICs or functions is made known by means of the option codes.

All options codes can be manipulated using both the option numbers and/or the Option menu.

All hardware related options are incorporated under the heading 'Options' of the 'Alignments' sub-menu of the 'Service Alignment Mode'. All software related options that are incorporated under the heading 'Dealer Options' of the 'Service Alignment Mode', can also be reached directly via the 'button of the DST.

| | | | |
|------------------|---------------------|----------|---|
| | PALplus | Yes | |
| | | No | |
| | Combiflite | Yes | IC7560 present on SSP (diagram K1) |
| | | No | IC7560 not present on SSP (diagram K1) |
| | Picture improvement | Yes | |
| | | No | |
| | Picnic AGC | Yes | In normal operation: Yes |
| | | No | During 'Drive' alignments: No |
| | Signalling bits | Yes | |
| | | No | |
| Source Selection | External 3 | Yes | 3rd EURO connector present |
| | | No | No 3rd EURO connector present |
| | External 4 | Yes | 4th EURO connector present |
| Audio Repro | | No | No 4th EURO connector present |
| | Dolby | None | |
| | | Pro Logi | |
| | | Digital | MCS-module present |
| | | Corded | |
| | | Virtual | |
| | | Cordless | Active surroundbox present |
| | | FL7 | Applicable for sets with subwoofer |
| | | FL8 | Applicable for sets without subwoofer |
| Miscellaneous | | FL9 | Monitor lock |
| | | Yes | Heatsinks present on CRT/Scavem panel (diagram F) |
| | | No | Heatsinks not present on CRT/Scavem panel (diagram F) |

Dealer Options in the Main-menu of Service Alignment Mode

| Menu name | Subjects | Options | Physically in set |
|-----------------|------------------|-------------|--|
| Picture options | CTI | Yes | CTI enabled |
| | | No | CTI disable |
| Personal | Blue Mute | Yes | Blue mute active in case no picture detected |
| | | No | Noise in case of no picture detected |
| | Virgin Mode | Yes | TV starts up once with language selection menu after mains switch on for the first time (virgin mode) |
| | | No | TV does not starts up once with language selection menu after mains switch on for the first time (virgin mode) |
| | Auto store mode | None | Autostore mode disabled (not in installation menu) |
| | | PDC-VPS | Autostore mode via ATS (PDC/VPS) enabled |
| | | TXT page | Autostore mode via ACI enabled |
| | | PDC-VPS-TXT | Autostore mode via ACI or ATS enabled |
| | Demo Mode Enable | Yes | Demo mode enable |
| | | No | Demo mode disable |
| | Auto TV | Yes | Auto TV mode enabled |
| | | No | Auto TV mode disabled |
| Teletext | TXT Preference | TOP | Preference to TOP teletext |
| | | FLOF | Preference to FLOF teletext |
| | East/West TXT | West | TXT characters for non -/58 sets |
| | | East | TXT characters for -/58 sets |

- After the option(s) have been changed, they must be stored via the STORE command.
- The new option is only active after the TV is switched off and then back on again using the mains switch (the EAROM is then read out again).

- Align the coil downwards again till above mentioned under- and overshoot is just disappeared.

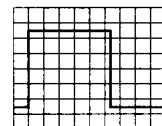
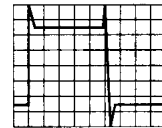
8.4.5 'Option number'

In case the EAROM has to be replaced, all the options will also require resetting. To be certain that the factory settings are reproduced exactly, both option numbers have to be set. These numbers can be found on a sticker on the picture tube.

Example: Option number 28PW9615/12 is:

05099 12568 04931 00016

12343 00001 00000 00000



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Figure 8-32

8.5 Alignments on Full Dual Screen module (M), needing SAM-mode + measuring equipment

(These alignments could be of interest when ICs (7501, TDA9320H), or the EAROM (7991, M24C04) are exchanged on the FDS-module, or if the Tuner UV1316 has been exchanged)

8.5.1 40.4 MHz neighbour-channel sound trap

- Tune the FDS-module to a checker board test-pattern (system BG - and with a carrier frequency of 475.25 MHz). See to it that the main-program of the set is tuned to another channel.
- Connect an oscilloscope (trigger line frequent) to pin 19 (CVBS out) of the scart2 connection. This output is WYSIWYR (what you see is what you record)
- Align the coil L5103 (diagram M1) completely downwards.
- Align the coil upwards till under- and overshoot arise at the black/white and white/black transitions in the video signal (Fig. 8.32).

8.5.2 'IF AFC'

See chapter 8.4.2 (IF AFC alignment on the SSP).

8.5.3 'Tuner AGC'

Supply a TV-signal, with a frequency of 475.25 MHz and a signal-strength of about 2 mV. Measure the DC-voltage on pin 1 of the Tuner UV1316 (position 1102). This pin 1 (test point M1) can be accessed easy, by measuring at the component-side of the module on smd-elco 2116 just underneath the Tuner. With the 'Tuner AGC' alignment in the SAM-menu (Alignments --> General --> VDS/PIP --> Tuner AGC), this voltage can be aligned. The alignment is correct when the DC-voltage is just below 3.8 V

8.6 Alignments on the Surround Transmitter module (R)

This alignment can only be performed when having mentioned (in alignment instructions) equipment.

Limited repair can be exercised if defective circuit is in the area that no alignment is needed.

If defective part is in circuitry where alignments are necessary two things can be done:

- swap panel by a new one
- if alignment equipment is available module can be aligned according described alignment-instructions:

8.6.1 Frequency Deviation level of Transmitter

- Insert on test points R1 (= F103) and R2 (=F106) a sine wave signal of 400 Hz with a amplitude of 3 Vrms.
- Align potmeter 3157 such, that frequency-deviation is 75 kHz (+/- 5 kHz). This corresponds with a amplitude of 80 mV(rms) on testpoint R11 (F 112); 230 mVpp.

8.7 Alignments on the Surround Receiver module (U)

- Now swap the generator from frequency - 150 kHz to frequency + 150 kHz, with same amplitude and modulation, and align 5107 such, that stop-pulse that can be measured at F104 (cathode of 6701) is symmetrical around 10.7 MHz. (low value is < 0.3V, high value is > 3.5 V)

8.7.2 Alignment of Tuned/Mute level

- Use a RF-generator as source. (3 to 7V, modulation 75 kHz)
- Dependent of receiver-version place receiver on channel 4 (433.9375, 926.250 or 864.00 MHz)
- Align potmeter 3711 such, that at pin 6 of connector 1702 (=F118) mute-level is down at 3 V and high at 7 V.

8.7.3 Alignment of VCO-demodulator

- Use a RF-generator as source. (1 mV, unmodulated)
- Dependent of receiver-version place receiver on channel 4 (433.9375, 926.250 or 864.00 MHz)
- Align potmeter 3736 such, that at test point F131 (pin 11 of TDA1578A), you measure 100 kHz (+/- 300 Hz).

(Receiver pcb)
Component-side

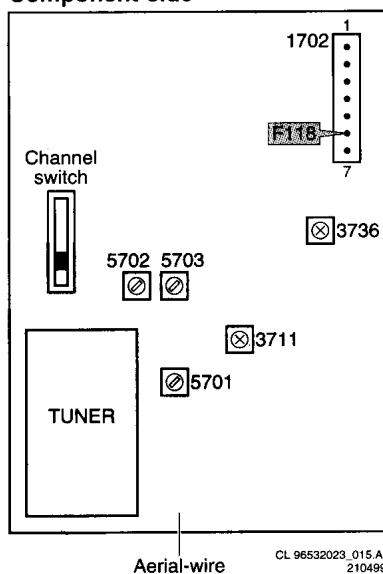


Figure 8-33

This alignment can only be performed when having mentioned (in alignment instructions) equipment.

Limited repair can be exercised if defective circuit is in the area that no alignment is needed.

If defective part is in circuitry where alignments are necessary two things can be done:

- swap panel by a new one
- (see Fig. 8.33). if alignment equipment is available module can be aligned according described alignment-instructions: (note: the alignment-components are covered by glue, so this must be cleaned first).

8.7.1 Alignment of FM-detection coil

- Use a RF-generator as source. (1 mV, modulation 75 kHz)
- Dependent of receiver-version place receiver on channel 4 (433.9375, 926.250 or 864.00 MHz)
- Align coil 5701 such, that at test point U6 (= F114) a maximal audio frequency is detected.

9. Circuit descriptions and list of abbreviations

9.1 Circuit descriptions

For the circuit description see the provisional Training Manual MG3.1E (3122 785 10007)

9.2 List of abbreviations

| | |
|----------------------|---|
| 16:9-ARFRONT | 16:9 aspect ratio input from side I/O |
| 50Hz/60Hz | 50Hz/60Hz mains frequency |
| 6-CHANNEL DAC | 6- Channel DAC |
| AFC | Automatic Frequency Control |
| AGC | Automatic Gain Control |
| AM-FM | Amplitude Modulation/Frequency Modulation |
| AM-SOUND | Amplitude modulated sound signal |
| AUDIO_C | Audio Centre |
| AUDIO_L | Audio Left |
| AUDIO_R | Audio Right |
| AUDIO_SL | Audio surround Left |
| AUDIO_SW | Audio Subwoofe |
| AUDIO-L-PROC | Audio left processed |
| AUDIO-R-PROC | Audio right processe |
| AUDIO-SR | Audio surround right |
| AUX-SUPPLY | Auxiliary supply |
| BC-PROT | Beam current protection |
| BG | System B and G |
| BLC-INFO | Black current information |
| B-SC1-IN | Blue scart1 in |
| B-SC2-IN | Blue scart2 in |
| B-TXT | Blue teletext |
| B-vc | Blue from video-controller |
| C | Center |
| C/16/9 | Chrominance input |
| C-7-OUT | Chrominance on pin 7 scart (variant) |
| CENTER | Center speake |
| C-FRONT | Chrominance front input |
| CL_DS_L | Constant Level Dual Screen Left |
| CL_DS_R | Constant Level Dual Screen Right |
| CL_L | Constant Level Left |
| CL_L_OUT | Constant Level Left out |
| CL_R | Constant Level Right |
| CL-R-OUT | Constant Level Right out |
| CODEC | Coding/Decoding |
| COMP | Compander ON/OFF |
| Compair | Computer aided repair |
| CORDL_L | Cordless Left |
| CORDL_R | cordless Right |
| CORE TOP LEVEL | Core Top Level |
| CRT | Cathode ray tube |
| CSM | Customer Service Mode |
| C-UI | Chrominance UI |
| CVBS | Composite Video Blanking Signal |
| CVBS_Y-UI | CVBS Y UI |
| CVBS-PIP-DS | CVBS Picture In Picture dual Scree |
| CVBS-SC1-IN | CVBS scart1 in |
| CVBS-SC2 OUT | CVBS scart2 out |
| CVBS-SC2-IN | CVBS scart2 in |
| CVBS-SC3-IN | CVBS scart3 in |
| CVBS-SC4-IN | CVBS Scart4 IN |
| CVBS-TER | CVBS terrestrial |
| CVBS-TXT-DS-OUT | CBVBS teletext Dual Screen out |
| CVBS-TXT-OUT | CVBS teletext out |
| CVBS-Y-FRONT | CVBS luminance front input |
| DAC-HOP | Digital analogue converter HOP IC |
| DC_PROT/ AUDIO_SR | DC protection (for supply) |
| DC-filament | Filament supply voltage |
| DC-PROT | DC protection |

| | |
|----------------|--|
| DETECT | Detect signal side I/O input |
| DFU | Directions For Use |
| DIG_IN1 | Digital In 1 |
| DIG_IN2 | Digital In 2 |
| DIGITAL I/O | Digital in/out |
| DIG-OUT | Digital out |
| DNR | Dynamic Noise Reduction |
| DS-AUDIO-L | Dual Sound Audio Left |
| DS-AUDIO-R | Dual Sound Audio Right |
| DSP | Digital Signal Processing |
| DST | Dealer Service Tool |
| DUET | DUET-IC |
| DVD | Digital Versatile Disc |
| DYN-FASE-COR | Dynamic phase correction |
| EHT-INFO | Extra high tension information |
| EPG | Electronic Programme Guide (= NextView) |
| EW-DRIVE | East-west drive signal |
| FALCONIC | Field and line rate convertor IC |
| FBCSO | Fixed beam current switch off |
| FBL-DS-OUT | Fast Blanking Dual Screen out |
| FBL-FDS | Fast Blanking Full Dual Screen |
| FBL-PIP | Fast Blanking PIP |
| FBL-SC1-IN | Fast blanking signal for scart1 in |
| FBL-SC2-IN | Fast blanking signal for scart2 in |
| FBL-TXT | Fast Blanking Teletext |
| FDSL-OUT | Full Dual Screen - Left out |
| FDSR-OUT | Full Dual Screen - Right out |
| FEAT-U | U from Feature Box |
| FEAT-V | V from Feature Box |
| FEAT-Y | Y from Feature Box |
| FILAMENT | Filament of CRT |
| FILAMENT-PROT | Filament protection |
| FLASH | Flash memory |
| FM SOUND | Frequency Modulation Sound |
| FRAME ROTATION | Frame rotation |
| FRAME-ROT + | Frame rotation + |
| FRONT-C | Front input chrominance (SVHS) |
| FRONT-DETECT | Front input detection |
| FRONT-Y_CVBS | Front input luminance or CVBS (SVHS) |
| GHOST-IN | Signal Ghost cancellation in |
| G-SC1- | Green scart1 in |
| G-SC2- | Green scart2 in |
| G-TXT | Green teletext |
| G-vc | Green from video-controller |
| HA | Horizontal Acquisition |
| HA1 | Horizontal Sync (diversity) |
| HA-D | Horizontal Sync from HIP-IC to FDS |
| HD | Horizontal drive coming from PICNIC |
| Hdefl-1in | Horizontal deflection signal needed for DC-shift circuitry |
| Hdefl-lin | Horizontal deflection linearity |
| HEATER | Heater (Filament) |
| HFB | Horizontal flyba |
| HFB+13V | Non rectified output 13V-winding LOT |
| HFB-D | Horizontal Fly Back to FDS |
| HIP | High-end Input Processor |
| HOP | High-end Output Processor |
| HOSD PIP | Horizontal OSD PIP |
| HP | Headphone |
| HS-D | Main, Horizontal sync input POPOV IC |
| I2C | Inter-integrated Circuit Bus |
| I2S-CL | I2S bus clock |
| I2S-DSP-IN | I2S digital signal processor in |
| I2S-DSP-OUT | I2S digital signal processor out |
| I2S-DSP-OUT1 | Serial-DSP-bus-out1 |
| I2S-WS | I2S bus word stroke |

| | | | |
|---------------|--|-----------------|--|
| IN-C_IN-R-SC2 | Either Chrominance-in scart2 or Red-in scart pin 15 | POPOV | Double Window/PIP IC |
| IN-FRONT-SNDL | Sound left front in | POWER-DOWN | Power Down Mute |
| IN-FRONT-SNDR | Sound right front in | MUTE | Power On Mute |
| IN-SC1 | In scart1 blue | POWER-ON MUTE | Right Audio |
| IN-SC1-G | In scart1 green | R | Random Access Memory |
| IN-SC1-R | In scart1 red | RAM | RC5 signal from the remote control receiver |
| IN-SC1-SNDL | In scart1 sound left | RC5 | Reset signal |
| IN-SC1-SNDR | In scart1 sound right | RESET | Reset signal for audio IC MSP3410 |
| IN-SC2 | In scart2 blue | RESET-AUDIO | Reset signal for audio IC MSP3410 inverted |
| IN-SC2-CVBS_Y | In scart2 CVBS or luminance (SVHS) | RESET-AUDIO-INV | Reset signal flash memory |
| IN-SC2-FBL | In scart2 fast blanking | RESET-FLASH | Right output (no companding) |
| IN-SC2-G | In scart2 green | RF | Right |
| IN-UI-B | B input from UI | RIGHT | Right Downmix |
| IN-UI-FBL | Fast Blanking input from UI | RIGHT_DOWNMIX | Right In |
| IN-UI-G | G input from UI | RIGHT_IN | Right out |
| IN-UI-R | R input from UI | RIGHT_OUT | Read Only Memory |
| IO-BUS | In/Out - Bus | ROM | Red scart1 in |
| IO-BUS | In/out bus | R-SC1-IN | Red teletext |
| IR-LED | Drive signal for the service Infra red LED | R-TXT | Red from video-controller |
| KEYBOARD | Top controls | R-vc | Short Circuit |
| L | Left Audio | S/C | Service Alignment Mode |
| LDP | Line deflection protectio | SAM | Scart2 blue in |
| LED | Light Emitting Diode | SC2-B-IN | Scart2 chrominance in |
| LEFT | Left | SC2-C-IN | Sand-castle 1FH/2FH |
| LEFT_DOWNMIX | LEFT Downmix | SC2FH_IFH | Scart2 green in |
| LEFT_IN | Left In | SC2-G-IN | Red in scart2 or chrominance in |
| LEFT_OUT | Left out | SC2-R-IN C-I | Scan Velocity Modulation |
| LF | Left output | Scavem | Scavem- switc |
| LIGHT SENSOR | Light sensor | SCAVEM-SW | Clock line of the I2C-bus fast (for TXT) |
| LINE-DRIVE | Line drive signal | SCL-F | Clock line of the I2C-bus slow |
| LMN | System L,M,N | SCL-S | Data line of the I2C-bus fast (for TXT) |
| LNA | Low noise adapter | SDA-F | Data line of the I2C-bus slow |
| LS CORRECTION | Picture with corrections | SDA-S | Service Default Mode |
| LSP | Large signal panel | SDM | Selection-signal for SOFAC 0 |
| LV- | Frame coil sink signal to the N/S correction circuitry | SEL_SOFAC_0 | Selection-signal for SOFAC 1 |
| LV+ | Frame coil drive signal from the frame output stag | SEL_SOFAC_1 | Selection switch MCS Left Right |
| MCADDEC_RESET | Reset signal (Master reset | SEL_TO-MCS_LR | Selection of Extern 2 input |
| MCS-MPEG | Multi channel sound - MPEG | SELECT TO EXT2 | |
| MSP-CLOCK | Clock signal multi-standard sound processor | SELECT_TO_CORD | |
| MUP | Micro-Computer | L_1 | Selection signal for Cordless 1 |
| MUTE | Mute-Line | SELECT_TO_MCS_ | |
| N52502 | CAD-naming referring to other sub-schedule | CINCH_0 | Selection-signal for MCS Cinch 0 |
| NC | Not Connected | SELECT_TO_MCS_ | |
| NVM | Non Volatile Memory | CINCH_1 | Selection-signal for MCS Cinch 1 |
| O/C | Open Circuit | SELECT-AUDIO | |
| ON/OFF LED | On/off control signal for the LED | CINCH1 | Selection of audio via cinch input 1 |
| OSD | On Screen Display | SELECT-AUDIO- | |
| OTC | OSD, Teletext Controлле | CINCH2 | Selection of audio via cinch input 2 |
| OUT-1 | Y-output POPOV IC | SELECT-AUDIO-LR | Selection of audio left and right |
| OUT-2 | V-output POPOV IC | SELECT- | |
| OUT-3 | U-output POPOV IC | TO_CORDL_0 | Selection signal for Cordless 0 |
| OVERRULE-TXT | Overrule Teletext | SERVICE-DEFAULT | Service pin to activate SDM |
| P2-5 | 9for MG3.1E, status 4 (scart 4) | SERVICE-MODE | Service pin to activate SAM |
| P2-6 | (for MG3.1E, status 3 (scart 3) | SIF | Sound Intermediate frequency |
| P2-7 | In MG3.1E, RGB 1FH/Front UI | SIFM | Sound intermediate frequency (Mono) |
| P50_OUT | Easy link data line from scart | SL | Surround Left |
| PCB | Printed Circuit board | SL-ST | Sliding stereo of the Stereo Demodulator IC TDA1578A |
| PD | Power Down | SNDL-CL_VL-OUT | Sound left constant level -variable level out |
| PICNIC | Picture Inproved Combined Network IC | SNDL-CL-VL-OUT | Sound L constant level, variable level out |
| PILOT | Pilot Signal | SNDL-FRONT-I | Sound left front in |
| PILOTMUTE | Pilot Mute signal | SNDL-HEADPH-OUT | Sound left headphone out |
| PIP | Picture In Picture | SNDL-SC1-IN | Sound left scart1 in |
| PIP-B | Picture In picture Blue | SNDL-SC1-OUT | Sound left scart1 out |
| PIP-FBL | PIP Fast Blanking | SNDL-SC2-IN | Sound left scart2 in |
| PIP-G | Picture In Picture Green | SNDL-SC2-OUT | Sound left scart2 out |
| PIP-R | Picture In Picture Red | SNDL-SC3-IN | Sound left scart3 in |
| | | SNDL-SC4-IN | Sound left scart4 in |
| | | SNDL-UI-IN | Sound left UI IN |

| | | | |
|-----------------------|---|----------------------------|--|
| SNDR-CL-VL-OUT | Sound R constant level, variable level out | VDNEG | Negative vertical drive signal |
| SNDR-FRONT-IN | Sound right front in | VDPOS | Positive vertical drive signal |
| SNDR-HEADPH-OUT | Sound right headphone out | +VD-switched | Only for VGA sets (VD-switched i.s.o. Vbat. |
| SNDR-SC1-IN | Sound right scart1 in | V-DS-1FH | V Dual Screen 1 X Horizontal Frequency |
| SNDR-SC1-OUT | Sound right scart1 out | V-DS-2FH | V Dual Screen 2 X Horizontal Frequency |
| SNDR-SC2-IN | Sound right scart2 in | V-DS-OUT | V Dual Screen out |
| SNDR-SC2-OUT | Sound right scart2 out | VFB | Vertical flyback pulse |
| SNDR-SC3-IN | Sound right scart3 in | VF-DEC | V-MAIN input POPOV IC |
| SNDR-SC4-IN | Sound Right scart4 IN | V-FEAT | V-feature-box (output signal from PICNIC) |
| SNDR-SC4-OUT | Sound right scart4 in | VF-SU | V-SUB input POPOV IC |
| SNDS-CL-VL-OUT | Sound surround constant level, variable level out | VGA-B | VGA Blue |
| SNDS-VL-OUT | Surround sound left variable level out | VGA-FBL | VGA Fast-blanking |
| SNDS-VR-OUT | Surround sound right variable level out | VGA-G | VGA Green |
| SOFAC | Sound and Fading Control | VGA-R | VGA Red |
| SOUND L-HEADPHONE-OUT | Sound left headphone out | VL_L | Variable level Left |
| SOUND R-HEADPHONE-OUT | Sound right headphone out | VL_R | Variable level Right |
| SOUND-ENABLE | Sound Enable | VL_SL | Variable level - Surround Left |
| SOUND-SELECT | Sound signal Selection | VL_SR | Variable level - Surround Right |
| SPDIF | Sony Philips Digital Interface Format | VL_SW | Variable Level Sub-Woofe |
| SPDIF_IN1 | SPDIF In 1 | VL_SW_DBE | Variable Level - Subwoofer- Dynamic Bass Enhancement |
| SPDIF_IN2 | SPDIF In 2 | VLL_C | Variable level Center |
| SS LEFT | Surround Left | V-OUT | V-signal to HOP-IC |
| SS RIGHT | Surround Right | VOUT_C | V-out Center |
| SSP | Small Signal Panel | VOUT_L | V-out Left |
| STANDARD-FM-1 | Standard Frequency Modulation 1 | VOUT_R | V-out Right |
| STANDARD-FM-2 | Standard Frequency Modulation 2 | VOUT_SL | V-out Surround Left |
| STANDBY | Standb | VOUT_SR | V-out Surround Right |
| STATUS1/2/3 | Status signal from Euro-connector 1 or 2 or 3 to the P, signal (1.29-3.31V is 16:9 signal, 3.32-5.0V is 4:3 signal) | VOUT-SW | V-out Subwoofe |
| STBY | Standb | VREG | Opto-coupler feedback signal |
| STEREO | Stereo | VS-DS | Main, Vertical sync input POPOV IC |
| SUBCAR | Subcarrier | V-SUB | V-output of HIP-IC on FDS |
| SUB-H | Horizontal Sync Sub-TV-Program (via FDS) | WIRED BACKUP-INFO | Wired back up information |
| SUB-V | Vertical Sync Sub-TV-Program (via FDS) | WIRED-BACKUP AUDIO INFO | Audio signal (surround) |
| SUBWOOFER | Subwoofer speaker | WIRELESS SURROUND RECEIVER | Wireless Surround receiver |
| SURROUND-LEFT | Surround Left | WIRELESS TRANSMITTER | Wireless Transmitter |
| SURROUND-RIGHT | Surround Right | X-RAY-PROT | X-Ray Protection |
| SW | Subwoofe | X-tal | Crystal |
| SYNC-SELECT | Synchronisation selection | Y_CVBS-SC2- | Luminance or CVBS scart2 in |
| TOPIC | The Outmost Picture Improvement IC | YB-DEC | Y-input for FDS |
| TRIG | Triggering | Y-DEC | Luminance-dec (input signal for PICNIC) |
| TUNED | Tuned-flag coming from the IF-IC TDA1597 | Y-DS-1FH | y Dual Screen 1 X Horizontal Frequency |
| UB-DEC | U-input for FDS | Y-DS-2FH | Y-Dual Screen 2 x Horizontal Frequency |
| U-DEC | U-dec (input signal for PICNIC) | Y-DS-OUT | Y Dual Screen out |
| U-DS-1FH | U Dual Screen 1 X Horizontal Frequency | YF-DEC | Y-MAIN input POPOV IC |
| U-DS-2FH | U dual Sound 2 X Horizontal Frequency | Y-FEAT | Luminance -feature-box (output signal from PICNIC) |
| U-DS-OUT | U Dual Screen out | YF-SU | Y-SUB input POPOV IC |
| UF-DEC | U-MAIN input POPOV IC | Y-OUT | Luminance-signal to HOP-IC |
| U-FEAT | U-feature-box (output signal from PICNIC) | Y-SUB | Y-output of HIP-IC on FDS |
| UF-SUB | U-SUB input POPOV IC | YUV-SELECT-2FH | YUV selection 2 X Horizontal Frequency |
| UI | Universal Interface | | |
| U-OUT | U-signal to HOP IC | | |
| U-SUB | U-output of HIP-IC on FDS | | |
| VA | Vertical Acquisition | | |
| VA1 | Vertical Sync (diversity) | | |
| VB-DEC | V-input for FDS | | |
| VD | Vertical Drive coming from PICNIC | | |
| VD-D | Vertical sync to FDS | | |
| V-DEC | V-dec (input signal for PICNIC) | | |
| VDEFL-1 | Vertical deflection connection 1 | | |
| VDEFL-2 | Vertical deflection connection 2 | | |

10. Spare parts list

Large Signal Panel [A2] [A3] [A4]

Various

| | |
|----------------------|---------------------|
| 3104 301 07723 | Cable 11P 340mm |
| 3104 301 07815 | Cable 2/3P 560mm |
| 3104 301 08332 | Cable 7P 340mm |
| 3104 301 08671 | Cable 2/3P 220mm |
| 3104 301 08682 | Cable 7P 180mm |
| 3104 301 08752 | Cable 9P 560mm |
| 3104 301 08762 | Cable 5P 400mm |
| 3104 301 08772 | Cable 11P 340mm |
| 3104 301 09611 | Cable 9P 340mm |
| 3104 304 19583 | LSP bracket |
| 3104 304 20263 | LOT support bracket |
| 3104 311 00321 | Cable 2/3P 560mm |
| 3104 317 70791 | EHT cable 640mm |
| 3104 317 79573 | EHT cable 590mm |
| 3104 328 01011 | LSP 28WS |
| 3104 328 01031 | LSP 32WS |
| 3104 328 01051 | LSP 29SF |
| 4822 320 12504 | Cable 3P 560mm |
| 4822 320 20216 | Focus cable |
| 3104 301 22172 | Spring short |
| 3122 121 24785 | Spring |
| 3104 301 23611 | Spring |
| 0303 4822 267 10774 | 2P male red |
| 0304 4822 265 20723 | 2P male |
| 0311 4822 267 10978 | 7P male black |
| 0315 4822 267 10979 | 9P male black |
| 0317 4822 265 20723 | 2P male |
| 0320 4822 267 10974 | 9P male black |
| 0321 4822 267 10978 | 7P male black |
| 0324 4822 267 10972 | 5P male black |
| 0325 4822 267 10967 | 3P male v |
| 0328 4822 267 10962 | 11P male v |
| 0328 4822 267 10981 | 11P male v |
| 0335 4822 267 10969 | 3P male v red |
| 0336 4822 267 10967 | 3P male black |
| 0337 4822 267 10967 | 3P male black |
| 0338 4822 267 11043 | 3P male yellow |
| 0339 4822 267 10971 | 5P male v |
| 0390 4822 267 10963 | 3P male v |
| 0393 4822 267 10971 | 5P male v |
| 1010 3104 328 01011 | LSP 28" WS |
| 1010 3104 328 01031 | LSP 32" WS |
| 1010 3104 328 01051 | LSP 29" |
| 1460▲ 4822 252 51186 | Fuse 2A |

-II-

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|---------------------|-----------------|
| 2400 4822 124 11575 | 47µF 20% 160V |
| 2401 4822 121 43343 | 4.7nF 10% 400V |
| 2409 4822 126 12726 | 47pF 5% 50V |
| 2410 2222 462 90009 | 4.7nF 2% 250V |
| 2412 5322 121 42489 | 33nF 5% 250V |
| 2413 5322 124 40641 | 10µF 20% 100V |
| 2414 5322 121 42489 | 33nF 5% 250V |
| 2415 5322 122 32334 | 220pF 10% 100V |
| 2417 4822 121 42408 | 220nF 5% 63V |
| 2418 4822 126 12263 | 220pF 10% 2KV |
| 2419 5322 121 44151 | 33nF 5% 400V |
| 2420 4822 121 70594 | 1nF 5% 2KV |
| 2421 4822 121 42634 | 560nF 5% 250V |
| 2422 4822 121 10805 | 1.2µF 5% 250V |
| 2425 4822 121 70435 | 10nF 5% 2KV |
| 2426 4822 121 10551 | 27nF 5% 630V |
| 2426 4822 121 10658 | 24nF 5% 630V |
| 2431 4822 126 12638 | 6.8nF 10% 50V |
| 2433 2022 333 00085 | 390nF 5% 250V |
| 2433 4822 121 42634 | 560nF 5% 250V |
| 2433 4822 121 51653 | 430nF 5% 250V |
| 2436 4822 124 41584 | 100µF 20% 10V |
| 2437 4822 124 41741 | 2.2µF 20% 350V |
| 2438 4822 122 33449 | 47nF 30% 50V |
| 2439 4822 126 12638 | 6.8nF 10% B 50V |
| 2442 4822 124 12297 | 4.7µF 20% 350V |
| 2448 2020 300 90572 | 8.2nF 10% 50V |
| 2448 4822 121 41935 | 12nF 5% 250V |
| 2448 4822 121 51093 | 6.8nF 5% 250V |
| 2450 4822 121 40518 | 100nF 10% 250V |
| 2454 5322 121 42386 | 100nF 5% 63V |
| 2455 4822 121 43897 | 1nF 5% 400V |
| 2460 4822 122 31177 | 470pF 10% 500V |

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|---------------------|----------------|
| 2461 4822 124 11909 | 470µF 20% 25V |
| 2462 4822 124 81039 | 3300µF 20% 25V |
| 2463 4822 122 31177 | 470pF 10% 500V |
| 2465 4822 122 31177 | 470pF 10% 500V |
| 2466 4822 124 11909 | 25V 470µF 20% |
| 2480 4822 124 40763 | 2.2µF 100V |
| 2481 5322 122 32311 | 470pF 10% 100V |
| 2482 4822 124 22466 | 1µF 20% 50V |
| 2484 4822 124 40769 | 4.7µF 20% 100V |
| 2487 4822 124 40248 | 10µF 20% 63V |
| 2506 4822 121 10711 | 100nF 20% 275V |
| 2612 5322 122 32311 | 470pF 10% 100V |
| 2613 5322 122 32311 | 470pF 10% 100V |
| 2615 4822 124 40255 | 100µF 20% 63V |
| 2616 5322 121 42386 | 100nF 5% 63V |
| 2617 4822 121 42408 | 220nF 5% 63V |
| 2618 5322 121 42386 | 100nF 5% 63V |
| 2620 5322 124 40641 | 10µF 20% 100V |
| 2701 5322 121 42386 | 100nF 5% 63V |
| 2702 5322 122 32261 | 4.7nF 10% 100V |
| 2704 4822 124 40248 | 10µF 20% 63V |
| 2705 4822 122 33642 | 150pF 5% 50V |
| 2705 5322 121 42386 | 100nF 5% 63V |
| 2711 5322 121 42386 | 100nF 5% 63V |
| 2712 5322 122 32261 | 4.7nF 10% 100V |
| 2714 4822 122 10182 | 100pF 5% 50V |
| 2715 5322 122 32332 | 1.5nF 10% 100V |
| 2730 4822 124 40248 | 10µF 20% 63V |
| 2732 4822 124 12392 | 47µF 20% 16V |
| 2733 5322 121 42386 | 100nF 5% 63V |
| 2738 4822 122 10182 | 100pF 5% 50V |
| 2739 4822 122 10182 | 100pF 5% 50V |
| 2740 4822 121 42408 | 220nF 5% 63V |
| 2741 4822 121 42408 | 220nF 5% 63V |
| 2742 4822 121 42408 | 220nF 5% 63V |
| 2742 4822 121 43526 | 47nF 5% 250V |
| 2743 4822 126 13461 | 680pF 10% 50V |
| 2743 5322 122 32332 | 1.5nF 10% 100V |
| 2744 4822 121 43526 | 47nF 5% 250V |
| 2745 4822 126 13461 | 680pF 10% 50V |
| 2746 4822 121 43526 | 47nF 5% 250V |
| 2747 4822 121 43526 | 47nF 5% 250V |
| 2748 4822 121 43526 | 47nF 5% 250V |
| 2749 4822 121 43526 | 47nF 5% 250V |
| 2750 4822 121 42408 | 220nF 5% 63V |
| 2751 4822 121 42408 | 220nF 5% 63V |
| 2752 4822 124 21913 | 1µF 20% 63V |
| 2753 5322 121 42661 | 330nF 5% 63V |
| 2753 5322 122 32332 | 1.5nF 10% 100V |
| 2754 4822 121 41854 | 150nF 5% 63V |
| 2754 4822 121 42408 | 220nF 5% 63V |
| 2755 4822 126 13461 | 680pF 10% 50V |
| 2755 5322 122 32332 | 1.5nF 10% 100V |
| 2756 4822 121 43526 | 47nF 5% 250V |
| 2757 4822 121 43526 | 47nF 5% 250V |
| 2758 4822 121 43526 | 47nF 5% 250V |
| 2759 4822 121 43526 | 47nF 5% 250V |
| 2760 4822 121 42408 | 220nF 5% 63V |
| 2761 4822 121 42408 | 220nF 5% 63V |
| 2762 4822 124 21913 | 1µF 20% 63V |
| 2763 5322 122 32332 | 1.5nF 10% 100V |
| 2764 4822 124 21913 | 1µF 20% 63V |
| 2765 5322 122 32332 | 1.5nF 10% 100V |
| 2766 4822 121 43526 | 47nF 5% 250V |
| 2767 4822 121 43526 | 47nF 5% 250V |
| 2768 4822 121 43526 | 47nF 5% 250V |
| 2769 4822 121 43526 | 47nF 5% 250V |
| 2770 4822 121 43526 | 47nF 5% 250V |
| 2771 4822 121 42408 | 220nF 5% 63V |
| 2774 4822 121 42408 | 220nF 5% 63V |
| 2775 5322 122 32332 | 1.5nF 10% 100V |
| 2776 4822 121 43526 | 47nF 5% 250V |
| 2777 4822 121 43526 | 47nF 5% 250V |
| 2778 4822 121 43526 | 47nF 5% 250V |
| 2779 4822 121 43526 | 47nF 5% 250V |
| 2780 4822 124 21913 | 1µF 20% 63V |
| 2790 4822 124 80061 | 1000µF 20% 25V |
| 2791 4822 124 80061 | 1000µF 20% 25V |
| 2792 5322 121 42386 | 100nF 5% 63V |
| 2793 5322 121 42386 | 100nF 5% 63V |
| 2794 4822 124 40248 | 10µF 20% 63V |
| 2795 4822 124 40248 | 10µF 20% 63V |



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|---------------------|-----------|
| 3401 4822 053 12479 | 47Ω 5% 3W |
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| 3404 4822 116 83883 | 470Ω 5% 0.5W |
| 3406 4822 116 52175 | 100Ω 5% 0.5W |
| 3407 4822 050 21003 | 10k 1% 0.6W |
| 3411 4822 116 52195 | 47Ω 5% 0.5W |
| 3413 4822 116 83883 | 470Ω 5% 0.5W |
| 3414 4822 116 52226 | 560Ω 5% 0.5W |
| 3415 4822 053 12229 | 22Ω 5% 3W |
| 3417 4822 116 52176 | 10Ω 5% 0.5W |
| 3423 4822 053 10688 | 6Ω 5% 1W |
| 3425 4822 116 52176 | 10Ω 5% 0.5W |
| 3426 4822 116 52176 | 10Ω 5% 0.5W |
| 3428 4822 116 52245 | 150k 5% 0.5W |
| 3429 4822 116 83884 | 47k 5% 0.5W |
| 3431▲ 4822 052 10101 | 100Ω 5% 0.33W |
| 3432 4822 116 83884 | 47k 5% 0.5W |
| 3436 4822 116 52269 | 3k3 5% 0.5W |
| 3437 4822 116 52245 | 150k 5% 0.5W |
| 3438 4822 050 23303 | 33k 1% 0.6W |
| 3440 4822 050 23303 | 33k 1% 0.6W |
| 3441 4822 116 52272 | 330k 5% 0.5W |
| 3442 4822 116 83874 | 220k 5% 0.5W |
| 3443▲ 4822 052 11688 | 6Ω 5% 0.5W |
| 3444 4822 050 23303 | 33k 1% 0.6W |
| 3445 4822 116 83883 | 470Ω 5% 0.5W |
| 3446 4822 116 83883 | 470Ω 5% 0.5W |
| 3447▲ 4822 052 10229 | 22Ω 5% 0.33W |
| 3448 4822 116 52234 | 100k 5% 0.5W |
| 3449 4822 116 52176 | 10Ω 5% 0.5W |
| 3450 4822 116 83884 | 47k 5% 0.5W |
| 3451 4822 116 52264 | 27k 5% 0.5W |
| 3452 4822 116 52257 | 22k 5% 0.5W |
| 3453 4822 116 80176 | 1Ω 5% 0.5W |
| 3454 4822 116 52291 | 56k 5% 0.5W |
| 3455 4822 116 83874 | 220k 5% 0.5W |
| 3457 4822 050 13904 | 390k 1% 0.4W |
| 3457 4822 116 52298 | 560k 5% 0.5W |
| 3457 4822 116 52298 | 680k 5% 0.5W |
| 3458 4822 050 11204 | 120k 1% 0.4W |
| 3458 4822 116 83874 | 220k 5% 0.5W |
| 3459 4822 116 83883 | 470Ω 5% 0.5W |
| 3462▲ 4822 052 11108 | 1Ω 5% 0.5W |
| 3463▲ 4822 052 11108 | 1Ω 5% 0.5W |
| 3466▲ 4822 052 10108 | 1Ω 5% 0.33W |
| 3468▲ 4822 052 10151 | 150Ω 5% 0.33W |
| 3478 4822 116 83872 | 220Ω 5% 0.5W |
| 3480 4822 116 52291 | 56k 5% 0.5W |
| 3480 4822 116 52297 | 68k 5% 0.5W |
| 3481▲ 4822 052 10102 | 1k 5% 0.33W |
| 3483▲ 4822 052 10478 | 4Ω 5% 0.33W |
| 3484▲ 4822 052 10109 | 10Ω 5% 0.33W |
| 3484▲ 4822 052 10478 | 4Ω 5% 0.33W |
| 3485 4822 050 25605 | 5M6 1% 0.6W |
| 3485 4822 050 27505 | 7M5 1% 0.6W |
| 3486 4822 116 52234 | 100k 5% 0.5W |
| 3488 4822 050 11002 | 1k 1% 0.4W |
| 3489 4822 116 52191 | 33Ω 5% 0.5W |
| 3490 4822 116 83874 | 220k 5% 0.5W |
| 3491 4822 116 83874 | 220k 5% 0.5W |
| 3492 4822 050 23303 | 33k 1% 0.6W |
| 3493 4822 050 11002 | 1k 1% 0.4W |
| 3498 4822 116 83872 | 220Ω 5% 0.5W |
| 3506 4822 117 12027 | 18Ω-3k 25% |
| 3507 4822 117 12027 | 18Ω-3k 25% |
| 3601 4822 116 80176 | 1Ω 5% 0.5W |
| 3601 4822 116 80676 | 1Ω 5% 0.5W |
| 3602 4822 116 80176 | 1Ω 5% 0.5W |
| 3602 4822 116 80676 | 1Ω 5% 0.5W |
| 3603 4822 116 80676 | 1Ω 5% 0.5W |
| 3603 4822 116 81039 | 1Ω 5% 0.5W |
| 3609▲ 4822 052 10472 | 4k7 5% 0.33W |
| 3610 4822 050 11002 | 1k 1% 0.4W |
| 3611 4822 050 28201 | 820Ω 1% 0.6W |
| 3612 4822 050 28201 | 820Ω 1% 0.6W |
| 3613 4822 050 11002 | 1k 1% 0.4W |
| 3614 4822 050 11002 | 1k 1% 0.4W |
| 3617▲ 4822 052 10158 | 1Ω 5% 0.33W |
| 3618 4822 116 83872 | 220Ω 5% 0.5W |
| 3619 4822 116 83872 | 220Ω 5% 0.5W |
| 3620 4822 050 21003 | 10k 1% 0.6W |
| 3700 4822 050 11002 | 1k 1% 0.4W |
| 3701 4822 116 52219 | 330Ω 5% 0.5W |
| 3704 4822 116 52303 | 8k2 5% 0.5W |
| 3705 4822 116 52244 | 15k 5% 0.5W |
| 3707 4822 116 52244 | 15k 5% 0.5W |
| 3707 4822 116 52303 | 8k2 5% 0.5W |
| 3710 4822 050 11002 | 1k 1% 0.4W |

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| 3711 | 4822 116 52219 | 330Ω 5% 0.5W |
| 3714 | 4822 050 21003 | 10k 1% 0.6W |
| 3715 | 4822 050 21003 | 10k 1% 0.6W |
| 3715 | 4822 116 52244 | 15k 5% 0.5W |
| 3716 | 4822 050 11002 | 1k 1% 0.4W |
| 3717 | 4822 116 52175 | 100Ω 5% 0.5W |
| 3717 | 4822 116 52249 | 1k8 5% 0.5W |
| 3720 | 4822 116 52234 | 100k 5% 0.5W |
| 3721 | 4822 116 52234 | 100k 5% 0.5W |
| 3722 | 4822 116 52234 | 100k 5% 0.5W |
| 3723 | 4822 116 52234 | 100k 5% 0.5W |
| 3724 | 4822 116 52234 | 100k 5% 0.5W |
| 3724 | 4822 116 83884 | 47k 5% 0.5W |
| 3725 | 4822 116 83884 | 47k 5% 0.5W |
| 3726 | 4822 116 52234 | 100k 5% 0.5W |
| 3728 | 4822 116 52234 | 100k 5% 0.5W |
| 3729 | 4822 116 52234 | 100k 5% 0.5W |
| 3730 | 4822 116 83883 | 470Ω 5% 0.5W |
| 3731 | 4822 116 83884 | 47k 5% 0.5W |
| 3732 | 4822 116 83884 | 47k 5% 0.5W |
| 3733 | 4822 116 52207 | 1k2 5% 0.5W |
| 3734 | 4822 116 52257 | 22k 5% 0.5W |
| 3735 | 4822 116 52283 | 4k7 5% 0.5W |
| 3740 | 4822 116 83883 | 470Ω 5% 0.5W |
| 3741 | 4822 050 23303 | 33k 1% 0.6W |
| 3741 | 4822 116 52231 | 820Ω 5% 0.5W |
| 3742 | 4822 116 83883 | 470Ω 5% 0.5W |
| 3743 | 4822 050 23303 | 33k 1% 0.6W |
| 3744 | 4822 117 12798 | 8Ω2 5% 0.25W |
| 3745 | 4822 117 12798 | 8Ω2 5% 0.25W |
| 3746 | 4822 116 52276 | 3k9 5% 0.5W |
| 3747 | 4822 116 52276 | 3k9 5% 0.5W |
| 3750 | 4822 116 52276 | 3k9 5% 0.5W |
| 3751 | 4822 116 52291 | 56k 5% 0.5W |
| 3752 | 4822 116 52269 | 3k3 5% 0.5W |
| 3752 | 4822 116 83883 | 470Ω 5% 0.5W |
| 3753 | 4822 116 52249 | 1k8 5% 0.5W |
| 3753 | 4822 116 83961 | 6k8 5% |
| 3754 | 4822 117 12798 | 8Ω2 5% 0.25W |
| 3755 | 4822 117 12798 | 8Ω2 5% 0.25W |
| 3760 | 4822 116 52257 | 22k 5% 0.5W |
| 3760 | 4822 116 83883 | 470Ω 5% 0.5W |
| 3761 | 4822 116 52276 | 3k9 5% 0.5W |
| 3761 | 4822 116 83961 | 6k8 5% |
| 3762 | 4822 116 83883 | 470Ω 5% 0.5W |
| 3763 | 4822 116 83961 | 6k8 5% |
| 3764 | 4822 117 12798 | 8Ω2 5% 0.25W |
| 3765 | 4822 117 12798 | 8Ω2 5% 0.25W |
| 3772 | 4822 116 83883 | 470Ω 5% 0.5W |
| 3773 | 4822 116 52231 | 820Ω 5% 0.5W |
| 3774 | 4822 117 12798 | 8Ω2 5% 0.25W |
| 3775 | 4822 117 12798 | 8Ω2 5% 0.25W |
| 3780 | 4822 116 52289 | 5k6 5% 0.5W |
| 3781 | 4822 116 52289 | 5k6 5% 0.5W |
| 3782 | 4822 116 52289 | 5k6 5% 0.5W |
| 3783 | 4822 116 52289 | 5k6 5% 0.5W |
| 3785 | 4822 116 52263 | 2k7 5% 0.5W |
| 3786 | 4822 116 52269 | 3k3 5% 0.5W |
| 3787 | 4822 050 21003 | 10k 1% 0.6W |
| 3790 | 4822 116 52234 | 100k 5% 0.5W |
| 3791 | 4822 116 52234 | 100k 5% 0.5W |

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| 5400 | 4822 157 71467 | 39μH 10% |
| 5401 | 4822 157 71452 | 18μH 10% |
| 5410 | 3128 138 36851 | Line driver transf. |
| 5421 | 3128 138 52581 | Linearity corr. |
| 5421 | 3128 138 52561 | Linearity corr. 29" |
| 5422 | 4822 146 11137 | Bridge coil |
| 5422 | 2422 531 02357 | Bridge coil 29" |
| 5423 | 4822 157 71097 | 0.56μH |
| 5425 | 4822 157 11411 | Bead 100MHz |
| 5426 | 4822 157 11411 | Bead 100MHz |
| 5430 | 2422 531 02365 | LOT |
| 5460 | 4822 157 71466 | 2.2μH 20% |
| 5462 | 4822 157 71466 | 2.2μH 20% |
| 5466 | 4822 157 71452 | 18μH 10% |
| 5468 | 4822 157 71452 | 18μH 10% |
| 5480 | 3128 138 30972 | Choke |
| 5501 | 4822 157 11422 | 12μH 10% |
| 5502 | 4822 157 11422 | 12μH 10% |
| 5617 | 4822 157 11771 | 0.09μH 10% |
| 5701 | 4822 157 11299 | 10μH 5% |
| 5702 | 4822 157 11299 | 10μH 5% |

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| 6407 | 4822 130 42488 | BYD33D |
| 6408 | 4822 130 42488 | BYD33D |

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| 6410 | 4822 130 30621 | 1N4148 |
| 6421 | 4822 130 10753 | BY359X-1500 |
| 6422 | 4822 130 10218 | BY229X-800 |
| 6437 | 4822 130 30621 | 1N4148 |
| 6441 | 4822 130 42488 | BYD33 |
| 6451 | 4822 130 34382 | BZX79-B8V2 |
| 6452 | 4822 130 30621 | 1N4148 |
| 6453 | 4822 130 34142 | BZX79-B33 |
| 6454 | 4822 130 30842 | BAV21 |
| 6460 | 4822 130 41487 | BYV95C |
| 6462 | 4822 130 41487 | BYV95C |
| 6463 | 4822 130 41487 | BYV95C |
| 6480 | 4822 130 61219 | BZX79-B10 |
| 6483 | 4822 130 30842 | BAV21 |
| 6484 | 4822 130 30621 | 1N4148 |
| 6485 | 4822 130 30621 | 1N4148 |
| 6486 | 4822 130 30621 | 1N4148 |
| 6608 | 4822 130 34174 | BZX79-B4V7 |
| 6609 | 4822 130 31983 | BAT85 |
| 6610 | 4822 130 30621 | 1N4148 |
| 6614 | 5322 130 31938 | BYV27-200 |
| 6617 | 4822 130 42488 | BYD33 |
| 6618 | 5322 130 33635 | BZV85-C8V2 |
| 6620 | 4822 130 42488 | BYD33 |
| 6790 | 5322 130 34563 | BZX79-C2V7 |
| 6791 | 5322 130 34563 | BZX79-C2V7 |



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| 7409 | 4822 130 40959 | BC547B |
| 7411 | 5322 130 44349 | BC635 |
| 7421 | 4822 130 63666 | BU2520DF |
| 7437 | 4822 130 44568 | BC557B |
| 7440 | 4822 209 70672 | LM358N SEL. |
| 7441 | 4822 130 40959 | BC547B |
| 7442 | 4822 130 44568 | BC557B |
| 7480 | 4822 130 11336 | STP16NE06FP |
| 7484 | 4822 209 70672 | LM358N SEL. |
| 7600 | 4822 209 90009 | TDA8177 |
| 7700 | 4822 209 83163 | LM833N |
| 7710 | 5322 209 86445 | LM7805CT |
| 7720 | 4822 209 11079 | MC79M05CT |
| 7730 | 4822 130 44568 | BC557B |
| 7731 | 4822 130 40959 | BC547B |
| 7732 | 4822 130 40959 | BC547B |
| 7733 | 4822 130 40959 | BC547B |
| 7740 | 4822 209 32641 | TDA2616Q |
| 7750 | 4822 209 32641 | TDA2616Q |
| 7760 | 4822 209 32641 | TDA2616Q |
| 7770 | 4822 209 32641 | TDA2616Q |
| 7780 | 4822 130 40959 | BC547B |

Power Supply panel [B]

Various

| | | |
|-------|----------------|------------------------|
| | 3104 304 19651 | Power supply frame |
| 1001 | 3104 328 01111 | Power supply panel WS |
| 1001 | 3104 328 02181 | Power supply panel 29" |
| 0051 | 3104 304 90261 | Isulator |
| 0052 | 3122 121 24785 | Spring |
| 0150 | 4822 265 11253 | Fuse holder |
| 0151 | 4822 265 11253 | Fuse holder |
| 0302 | 2422 025 16374 | 2P male v black |
| 0304 | 4822 265 20723 | 2P |
| 0310 | 4822 267 10964 | 9P |
| 0320 | 4822 267 10974 | 9P |
| 0321 | 4822 267 10978 | 7P |
| 0330 | 2422 025 14904 | 7P male v/description> |
| 1001▲ | 4822 253 30467 | Fuse 6,3A |
| 1002▲ | 4822 280 10375 | Relay 1P 5V 10A |
| 1003▲ | 4822 070 33152 | Fuse 3.15A |
| 1005 | 4822 252 60151 | Surge protect |
| 1007 | 4822 280 80777 | Relay 2P 12V 5A |



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|------|----------------|----------------|
| 2000 | 4822 126 13589 | 470nF 275V |
| 2004 | 4822 126 14153 | 2.2nF 10% 1KV |
| 2005 | 4822 126 14153 | 2.2nF 10% 1KV |
| 2007 | 4822 121 41857 | 10nF 5% 250V |
| 2009 | 4822 121 41857 | 10nF 5% 250V |
| 2100 | 4822 124 12295 | 4.7μF 20% 450V |
| 2101 | 5322 122 32818 | 2.2nF 10% 100V |
| 2102 | 5322 121 42498 | 680nF 5% 63V |
| 2104 | 4822 123 14025 | 2200μF 20% 16V |
| 2105 | 5322 122 32818 | 2.2nF 10% 100V |

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| 2201 | 4822 124 12359 | 330μF 20% 400V |
| 2202 | 4822 124 80144 | 220μF 20% 25V |
| 2203 | 4822 124 80144 | 220μF 20% 25V |
| 2204 | 5322 121 51214 | 680pF 1% 400V |
| 2205 | 4822 121 51288 | 100pF 630V |
| 2207 | 4822 121 41854 | 150nF 5% 63V |
| 2208 | 5322 121 42386 | 100nF 5% 63V |
| 2210 | 4822 126 13451 | 2.2nF 10% 2KV |
| 2211 | 2222 375 90224 | 39nF 5% 1KV |
| 2212 | 4822 126 13862 | 1.5nF 10% 2KV |
| 2213 | 4822 126 13862 | 1.5nF 10% 2KV |
| 2214▲ | 4822 126 14504 | 3.3nF 20% 250V |
| 2215 | 4822 122 30043 | 10nF 80% 63V |
| 2216 | 5322 121 42386 | 100nF 5% 63V |
| 2217 | 4822 124 40207 | 100μF 20% 25V |
| 2218 | 4822 124 40255 | 100μF 20% 63V |
| 2219 | 4822 122 30043 | 10nF 80% 63V |
| 2220 | 4822 124 80707 | 2200μF 20% 25V |
| 2221 | 4822 124 80707 | 2200μF 20% 25V |
| 2222 | 4822 124 40214 | 1000μF 20% 25V |
| 2223 | 4822 124 11572 | 47μF 20% 160V |
| 2225 | 5322 122 32331 | 1nF 10% 100V |
| 2226 | 5322 121 42386 | 100nF 5% 63V |
| 2227 | 4822 122 31169 | 1.5nF 10% 500V |
| 2228 | 4822 124 81151 | 22μF 50V |
| 2230 | 4822 124 11878 | 4700μF 16V. |
| 2231 | 4822 121 41854 | 150nF 5% 63V |
| 2232 | 4822 122 30043 | 10nF 80% 63V |
| 2233 | 4822 122 30043 | 10nF 80% 63V |
| 2234 | 4822 124 80061 | 1000μF 20% 25V |
| 2235 | 5322 122 32331 | 1nF 10% 100V |
| 2236 | 4822 124 11767 | 47μF 20% 25V |
| 2237 | 4822 122 31175 | 1nF 10% 500V |
| 2238 | 5322 121 42386 | 100nF 5% 63V |
| 2239 | 4822 121 42062 | 150 nF 10% 400V |
| 2240 | 5322 122 32261 | 4.7nF 10% 100V |
| 2241 | 4822 122 30043 | 10nF 80% 63V |
| 2242 | 4822 122 33449 | 47nF 30% 50V |
| 2244 | 4822 126 12263 | 220pF 10% 2KV |
| 2246 | 4822 122 31175 | 1nF 10% 500V |
| 2246 | 4822 122 31177 | 470pF 10% 500V |
| 2250 | 5322 122 32331 | 1nF 10% 100V |
| 2251 | 4822 121 51305 | 15nF 10% 50V |
| 2252 | 5322 122 32818 | 2.2nF 10% 100V |
| 2253 | 4822 121 51252 | 470nF 5% 63V |
| 2260 | 4822 122 30103 | 22nF 80% 63V |
| 2261 | 4822 126 10206 | 2.2nF 10% 500V |
| 2262 | 4822 126 10206 | 2.2nF 10% 500V |
| 2263 | 5322 122 32311 | 470pF 10% 100V |
| 2264 | 5322 122 32311 | 470pF 10% 100V |
| 2271 | 5322 122 32331 | 1nF 10% 100V |
| 2272 | 5322 122 32331 | 1nF 10% 100V |
| 2274 | 4822 122 31175 | 1nF 10% 500V |
| 2275 | 4822 122 31175 | 1nF 10% 500V |
| 2276 | 5322 122 32331 | 1nF 10% 100V |
| 2277 | 5322 122 32818 | 2.2nF 10% 100V |



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| 3001▲ | 4822 116 10065 | VDR 1mA/495V MAX 850V |
| 3002 | 4822 117 12181 | 470Ω 20% 0.5W |
| 3003 | 4822 116 52256 | 2k2 5% 0.5W |
| 3004 | 4822 116 52234 | 100k 5% 0.5W |
| 3006 | 4822 117 12074 | 7W 1Ω5 10% |
| 3007 | 4822 116 52283 | 4k7 5% 0.5W |
| 3008 | 4822 116 52256 | 2k2 5% 0.5W |
| 3009 | 4822 050 21003 | 10k 1% 0.6W |
| 3101 | 4822 053 20106 | 10M 5% 0.25W |
| 3102 | 4822 050 11002 | 1k 1% 0.4W |
| 3103 | 4822 050 21003 | 10k 1% 0.6W |
| 3106 | 4822 116 52256 | 2k2 5% 0.5W |
| 3107 | 4822 116 52256 | 2k2 5% 0.5W |
| 3108 | 4822 116 52182 | 15Ω 5% 0.5W |
| 3109 | 4822 050 21003 | 10k 1% 0.6W |
| 3110▲ | 4822 052 10109 | 10Ω 5% 0.33W |
| 3113 | 4822 050 24701 | 470Ω 1% 0.6W |
| 3114 | 4822 050 21201 | 120Ω 1% 0.6W |
| 3115 | 4822 116 52228 | 680Ω 5% 0.5W |
| 3117 | 4822 116 52195 | 47Ω 5% 0.5W |
| 3118 | 4822 116 52182 | 15Ω 5% 0.5W |
| 3200▲ | 4822 052 10478 | 4Ω7 5% 0.33W |
| 3200▲ | 4822 052 10569 | 56Ω 5% 0.33W |
| 3202 | 4822 116 52303 | 8k2 5% 0.5W |
| 3203 | 4822 050 23903 | 39k 1% 0.6W |
| 3204 | 4822 116 52264 | 27k 5% 0.5W |
| 3205 | 4822 116 52289 | 5k6 5% 0.5W |
| 3206 | 4822 050 21003 | 10k 1% 0.6W |
| 3207 | 4822 050 21003 | 10k 1% 0.6W |
| 3208 | 4822 116 838 | |

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| 3210 | 4822 116 83883 | 470Ω 5% 0.5W |
| 3211 | 4822 116 83883 | 470Ω 5% 0.5W |
| 3214▲ | 4822 052 10101 | 100Ω 5% 0.33W |
| 3215▲ | 4822 052 10479 | 47Ω 5% 0.33W |
| 3216 | 4822 050 11002 | 1k 1% 0.4W |
| 3217▲ | 4822 052 10101 | 100Ω 5% 0.33W |
| 3218▲ | 4822 052 10479 | 47Ω 5% 0.33W |
| 3219 | 4822 050 11002 | 1k 1% 0.4W |
| 3221 | 4822 052 10109 | 10Ω 5% 0.33W |
| 3222 | 4822 116 52249 | 1k8 5% 0.5W |
| 3223 | 4822 116 52249 | 1k8 5% 0.5W |
| 3224 | 4822 116 52249 | 1k8 5% 0.5W |
| 3227 | 4822 052 10129 | 12Ω 5% 0.33W |
| 3228 | 2322 257 41153 | 15K 5% 5W |
| 3229 | 4822 116 52175 | 100Ω 5% 0.5W |
| 3230 | 4822 116 52234 | 100k 5% 0.5W |
| 3231 | 4822 116 52234 | 100k 5% 0.5W |
| 3232 | 4822 116 83961 | 6k8 5% |
| 3233 | 4822 050 11002 | 1k 1% 0.4W |
| 3234 | 4822 116 52175 | 100Ω 5% 0.5W |
| 3235 | 4822 116 52207 | 1k2 5% 0.5W |
| 3236 | 4822 116 52303 | 8k2 5% 0.5W |
| 3237 | 4822 050 21604 | 160k 1% 0.6W |
| 3238 | 4822 050 22702 | 2k7 1% 0.6W |
| 3239 | 4822 101 11186 | 470Ω 30% LIN 0.1W |
| 3240 | 4822 116 52226 | 560Ω 5% 0.5W |
| 3241 | 4822 116 52226 | 560Ω 5% 0.5W |
| 3242 | 4822 050 24703 | 47k 1% 0.6W |
| 3243 | 4822 050 25603 | 56k 1% 0.6W |
| 3244 | 4822 050 21003 | 10k 1% 0.6W |
| 3245 | 4822 116 83882 | 39k 5% 0.5W |
| 3246 | 4822 116 52231 | 820Ω 5% 0.5W |
| 3246 | 4822 116 83961 | 6k8 5% |
| 3247 | 4822 116 52175 | 100Ω 5% 0.5W |
| 3248 | 4822 116 52219 | 330Ω 5% 0.5W |
| 3249 | 4822 050 21003 | 10k 1% 0.6W |
| 3250 | 4822 050 28204 | 820k 1% 0.6W |
| 3251 | 4822 050 26804 | 680k 1% 0.6W |
| 3252 | 4822 050 21003 | 10k 1% 0.6W |
| 3253 | 4822 116 52244 | 15k 5% 0.5W |
| 3254 | 4822 050 21003 | 10k 1% 0.6W |
| 3255 | 4822 116 83961 | 6k8 5% |
| 3256 | 4822 050 21003 | 10k 1% 0.6W |
| 3257 | 4822 116 52213 | 180Ω 5% 0.5W |
| 3258 | 4822 053 20565 | 5M6 5% 0.25W |
| 3259 | 4822 116 52244 | 15k 5% 0.5W |
| 3260 | 4822 050 21508 | 1Ω5 1% 0.6W |
| 3260 | 4822 050 24708 | 4Ω7 1% 0.6W |
| 3261 | 4822 116 52297 | 68k 5% 0.5W |
| 3262 | 4822 116 52234 | 100k 5% 0.5W |
| 3263 | 4822 050 22208 | 2Ω2 1% 0.6W |
| 3263 | 4822 050 26808 | 6Ω8 1% 0.6W |
| 3264 | 4822 050 11002 | 1k 1% 0.4W |
| 3265 | 4822 050 11002 | 1k 1% 0.4W |
| 3266 | 4822 050 21003 | 10k 1% 0.6W |
| 3267 | 4822 116 52256 | 2k2 5% 0.5W |
| 3268 | 4822 050 21508 | 1Ω5 1% 0.6W |
| 3268 | 4822 050 24708 | 4Ω7 1% 0.6W |
| 3269 | 4822 050 21508 | 1Ω5 1% 0.6W |
| 3269 | 4822 050 24708 | 4Ω7 1% 0.6W |
| 3274 | 4822 116 52195 | 47Ω 5% 0.5W |
| 3998 | 4822 050 21003 | 10k 1% 0.6W |
| 9281 | 4822 050 21001 | 100Ω 1% 0.6W |

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| 5000 | 3104 308 77931 | Mains filter DMF3547HB60 |
| 5101▲ | 4822 146 11065 | Standby transf. CE165T |
| 5102 | 4822 157 70436 | 8.2μH 10% |
| 5103 | 4822 157 71466 | 2.2μH 20% |
| 5201 | 8222 289 53691 | Driver transf. CE136H |
| 5202 | 3122 268 32481 | Transformer |
| 5202 | 8222 289 55771 | Transformer 29" |
| 5204 | 2422 531 02383 | Transformer |
| 5205 | 3198 018 74780 | 4.7μH 20% |
| 5206 | 4822 157 11411 | Bead 100MHz |
| 5207 | 4822 157 11411 | Bead 100MHz |
| 5208 | 4822 157 63985 | 33μH 5% |
| 5209 | 4822 157 11411 | Bead 100MHz |
| 5210 | 4822 157 51462 | 10μH 10% |
| 5212 | 4822 157 11411 | Bead 100MHz |
| 5213 | 4822 157 11411 | Bead 100MHz |
| 5214 | 4822 157 11771 | 0.09μH 10% |
| 5219 | 4822 157 11411 | Bead 100MHz |
| 5222 | 4822 157 71453 | 27μH 10% |
| 5223 | 4822 157 71453 | 27μH 10% |
| 5224 | 4822 157 71453 | 27μH 10% |
| 5225 | 4822 157 11411 | Bead 100MHz |
| 5226 | 4822 157 11411 | Bead 100MHz |
| 5227 | 4822 157 11411 | Bead 100MHz |

| | | |
|------|----------------|-------------|
| 5228 | 4822 157 11411 | Bead 100MHz |
| 5240 | 4822 157 11411 | Bead 100MHz |
| 5241 | 4822 526 10704 | Bead 100MHz |
| 5242 | 4822 526 10704 | Bead 100MHz |
| 5243 | 4822 526 10704 | Bead 100MHz |
| 5244 | 4822 526 10704 | Bead 100MHz |
| 5271 | 4822 157 71453 | 27μH 10% |
| 5272 | 3198 018 74780 | 4.7μH 20% |
| 5273 | 4822 157 71453 | 27μH 10% |
| 5274 | 4822 157 11869 | 33μH 10% |
| 5275 | 4822 157 11411 | Bead 100MHz |

| | | |
|------|----------------|--------------|
| 6004 | 4822 130 31083 | BYW55 |
| 6005 | 4822 130 31083 | BYW55 |
| 6006 | 4822 130 31083 | BYW55 |
| 6007 | 4822 130 31083 | BYW55 |
| 6009 | 4822 130 30621 | 1N4148 |
| 6101 | 4822 130 83147 | DF06M |
| 6103 | 4822 130 42488 | BYD33D |
| 6104 | 4822 130 34499 | BZX79-B20 |
| 6105 | 4822 130 34281 | BZX79-B15 |
| 6107 | 5322 130 31938 | BYV27-200 |
| 6108 | 4822 130 30621 | 1N4148 |
| 6200 | 4822 130 30621 | 1N4148 |
| 6201 | 4822 130 30621 | 1N4148 |
| 6202 | 9337 534 30133 | BZD23-C15 |
| 6204 | 4822 130 30621 | 1N4148 |
| 6205 | 4822 130 30621 | 1N4148 |
| 6206 | 4822 130 34441 | BZX79-B22 |
| 6207 | 4822 130 30621 | 1N4148 |
| 6208 | 4822 130 30621 | 1N4148 |
| 6209 | 4822 130 31024 | BZX79-B18 |
| 6209 | 4822 130 34268 | BZX79-B16 |
| 6210 | 4822 130 42488 | BYD33D |
| 6211 | 4822 130 30621 | 1N4148 |
| 6212 | 4822 130 30621 | 1N4148 |
| 6214 | 4822 130 30621 | 1N4148 |
| 6216 | 4822 130 30621 | 1N4148 |
| 6217 | 4822 130 30621 | 1N4148 |
| 6218 | 4822 130 82158 | D3SBA60 |
| 6219 | 4822 130 30621 | 1N4148 |
| 6220 | 4822 130 30621 | 1N4148 |
| 6221 | 4822 130 34174 | BZX79-B4V7 |
| 6222 | 9322 129 53687 | UG10DCT |
| 6224 | 4822 130 82158 | D3SBA60 |
| 6230 | 4822 130 82627 | SB540 |
| 6234 | 4822 130 34197 | BZX79-B12 |
| 6235 | 4822 130 30621 | 1N4148 |
| 6237 | 4822 130 80791 | BYV28-200/20 |
| 6238 | 4822 130 34278 | BZX79-B6V8 |
| 6239 | 4822 130 34197 | BZX79-B12 |
| 6270 | 4822 130 30621 | 1N4148 |
| 6271 | 4822 130 30621 | 1N4148 |

| | | |
|-------|----------------|-------------|
| 7000 | 4822 130 40981 | BC337-25 |
| 7001 | 4822 130 40959 | BC547B |
| 7100 | 4822 130 44568 | BC557B |
| 7101 | 4822 130 40959 | BC547B |
| 7102 | 4822 130 11417 | STP3NB60FP |
| 7103 | 4822 130 40959 | BC547B |
| 7104▲ | 4822 130 11418 | TCDT1102G |
| 7200▲ | 4822 130 11418 | TCDT1102G |
| 7201 | 4822 130 40959 | BC547B |
| 7202 | 4822 130 44568 | BC557B |
| 7203 | 4822 130 44568 | BC557B |
| 7204 | 4822 130 44568 | BC557B |
| 7205 | 9322 108 21682 | MC34067P |
| 7206 | 9322 132 14687 | STP11NB40FP |
| 7207 | 9322 132 14687 | STP11NB40FP |
| 7211 | 4822 209 32063 | MC34167TV |
| 7212 | 4822 209 81397 | TL431CLPST |
| 7213 | 4822 209 12334 | L4940V85 |
| 7230 | 4822 130 44568 | BC557B |
| 7231 | 4822 130 40959 | BC547B |
| 7232 | 4822 130 11421 | BT151X-500R |

Mains switch panel [E]

| | | |
|----------------|---|--------------------|
| Various | | |
| 3104 301 08291 | V | Cable 2/3P 560mm |
| 3104 304 19810 | | Lightguide |
| 3104 328 01151 | | Mains switch panel |

| | | |
|----------------|----------------|-------------------------|
| 4822 402 11176 | | Bracket mains unit |
| 4822 410 12069 | | Mains konb |
| 3104 304 19732 | | Photo diode holder |
| 3111 104 48012 | | LED holder |
| 3111 104 48012 | | LED holder |
| 2422 025 16268 | | 2P male h |
| 2422 025 16374 | | 2P male v |
| 0241 | 4822 267 10974 | 9P |
| 0245 | 4822 267 10963 | 3P |
| 1050 | 4822 130 91478 | IR receiver TSOP1736KD1 |
| 1051 | 4822 276 14024 | Mains switch 2P 4/128A |

| | | |
|------|----------------|---------------|
| -II- | | |
| 2051 | 4822 124 41584 | 100μF 20% 10V |
| 2070 | 4822 126 14076 | 220nF 20% 25V |
| 2071 | 4822 124 40248 | 10μF 20% 63V |

| | | |
|------|----------------|---------------|
| -□- | | |
| 3050 | 4822 117 13577 | 330Ω 1% 1.25W |
| 3051 | 4822 051 20471 | 470Ω 5% 0.1W |
| 3054 | 4822 051 20561 | 560Ω 5% 0.1W |
| 3055 | 4822 051 20008 | Jumper 0805 |
| 3057 | 4822 053 21335 | 3M3 5% 0.5W |
| 3058 | 4822 051 20474 | 470k 5% 0.1W |
| 3059 | 4822 117 11507 | 6k8 1% 0.1W |
| 3061 | 4822 051 20332 | 3k3 5% 0.1W |
| 3063 | 4822 052 10478 | 4Ω7 5% 0.33W |
| 3064 | 4822 052 10478 | 4Ω7 5% 0.33W |
| 3066 | 4822 053 21335 | 3M3 5% 0.5W |
| 3070 | 4822 051 20334 | 330k 5% 0.1W |
| 3071 | 4822 051 20334 | 330k 5% 0.1W |
| 3072 | 4822 051 10102 | 1k 2% 0.25W |
| 3073 | 4822 117 10833 | 10k 1% 0.1W |
| 3074 | 4822 051 20472 | 4k7 5% 0.1W |
| 3075 | 4822 051 20472 | 4k7 5% 0.1W |
| 3076 | 4822 117 11507 | 6k8 1% 0.1W |
| 3077 | 4822 117 10833 | 10k 1% 0.1W |
| 3078 | 4822 051 10102 | 1k 2% 0.25W |
| 3079 | 4822 051 20332 | 3k3 5% 0.1W |
| 3080 | 4822 117 10833 | 10k 1% 0.1W |

| | | |
|------|----------------|-------------|
| -II- | | |
| 6051 | 4822 209 72895 | TLUV5320 |
| 6052 | 4822 130 11409 | TSIL6403 |
| 6053 | 4822 130 11411 | BZX284-C3V3 |
| 6070 | 4822 130 11595 | BPW46 |

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|------|----------------|----------|
| -E | | |
| 7010 | 4822 130 60511 | BC847B |
| 7050 | 4822 130 41246 | BC327-25 |

Picture Tube Panel [F]

| | | |
|---------|----------------|----------------------|
| Various | | |
| 0041 | 4822 492 70788 | Spring fix IC |
| 0042 | 4822 492 70788 | Spring fix IC |
| 0043 | 4822 492 70788 | Spring fix IC |
| 0224 | 4822 267 10972 | 5P |
| 0297 | 4822 255 10415 | CRT socket 9P DAF |
| 0298 | 2422 500 80054 | CRT socket 8P N-NECK |
| 0334 | 4822 267 10973 | 1P |
| 0340 | 4822 267 10974 | 9P |
| 0383 | 4822 267 10967 | 3P |
| 1030 | 3104 328 02321 | PTP 28"-29" |
| 1030 | 3104 328 02341 | PTP 32" |
| 8383 | 4822 320 12525 | Cable 3P 340mm |

| | | |
|------|----------------|---------------|
| -II- | | |
| 2325 | 4822 124 40248 | 10μF 20% 63V |
| 2330 | 5322 122 32658 | 22pF 5% 50V |
| 2331 | 5322 122 33244 | 8.2pF 5% 50V |
| 2332 | 5322 126 10223 | 4.7nF 10% 63V |
| 2333 | 4822 122 32535 | 680pF 10% 63V |
| 2336 | 4822 126 12105 | 33nF 5% 50V |
| 2337 | 5322 121 42489 | 33nF 5% 250V |
| 2340 | 5322 122 32658 | 22pF 5% 50V |
| 2341 | 5322 122 32269 | 6.8pF 5% 50V |
| 2342 | 5322 126 10223 | 4.7nF 10% 63V |
| 2343 | 4822 122 32535 | 680pF 10% 63V |

| | | |
|------|----------------|---------------|
| 2346 | 4822 126 12105 | 33nF 5% 50V |
| 2347 | 5322 121 42489 | 33nF 5% 250V |
| 2350 | 5322 122 32658 | 22pF 5% 50V |
| 2351 | 5322 122 32269 | 6.8pF 5% 50V |
| 2352 | 5322 126 10223 | 4.7nF 10% 63V |
| 2353 | 4822 122 32535 | 680pF 10% 63V |
| 2356 | 4822 126 12105 | 33nF 5% 50V |
| 2357 | 5322 121 42489 | 33nF 5% 250V |
| 2370 | 4822 124 11565 | 10µF 20% 250V |
| 2372 | 4822 124 40207 | 100µF 20% 25V |
| 2381 | 4822 122 31175 | 1nF 10% 500V |
| 2393 | 5322 122 31647 | 1nF 10% 63V |
| 2397 | 4822 121 70581 | 1.5nF 10% 2kV |
| 2398 | 5322 121 44356 | 4.7nF 10% 2kV |
| 2400 | 4822 124 40207 | 100µF 20% 25V |
| 2401 | 4822 126 13486 | 15pF 2% 63V |
| 2402 | 4822 126 13689 | 18pF 1% 63V |
| 2403 | 5322 122 32658 | 22pF 5% 50V |
| 2404 | 4822 124 40433 | 47µF 20% 25V |
| 2405 | 5322 122 32286 | 3.3pF 5% 50V |
| 2406 | 5322 121 42386 | 100nF 5% 63V |
| 2407 | 5322 122 31863 | 330pF 5% 63V |
| 2409 | 4822 121 70619 | 22nF 10% 50V |
| 2410 | 5322 122 32654 | 22nF 10% 63V |
| 2411 | 4822 124 40764 | 22µF 100V |
| 2420 | 4822 121 41856 | 22nF 5% 250V |
| 2422 | 4822 126 13486 | 15pF 2% 63V |



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|-------|----------------|-----------------------------|
| 3324 | 4822 117 10833 | 10k 1% 0.1W |
| 3325 | 4822 051 20182 | 1k8 5% 0.1W |
| 3327 | 4822 117 10837 | 100k 1% 0.1W |
| 3329 | 4822 050 21003 | 10k 1% 0.6W |
| 3330 | 4822 117 11449 | 2k2 1% 0.1W |
| 3331 | 4822 050 21204 | 120k 1% 0.6W |
| 3332 | 4822 117 12955 | 2k7 1% 0.1W |
| 3333 | 4822 051 20008 | Jumper 0805 |
| 3334 | 4822 116 52175 | 100Ω 5% 0.5W |
| 3335 | 4822 117 12516 | 680Ω 2% 0.5W |
| 3336 | 4822 051 20561 | 560Ω 5% 0.1W |
| 3339 | 4822 050 11002 | 1k 1% 0.4W |
| 3340 | 4822 117 11449 | 2k2 1% 0.1W |
| 3341 | 4822 050 21204 | 120k 1% 0.6W |
| 3342 | 4822 117 12955 | 2k7 1% 0.1W 0805 |
| 3343 | 4822 051 20008 | Jumper 0805 |
| 3344 | 4822 116 52175 | 100Ω 5% 0.5W |
| 3345 | 4822 117 12516 | 680Ω 2% 0.5W |
| 3346 | 4822 051 20561 | 560Ω 5% 0.1W |
| 3349 | 4822 050 11002 | 1k 1% 0.4W |
| 3350 | 4822 117 11449 | 2k2 1% 0.1W |
| 3351 | 4822 050 21204 | 120k 1% 0.6W |
| 3352 | 4822 117 12955 | 2k7 1% 0.1W 0805 |
| 3353 | 4822 051 20008 | Jumper 0805 |
| 3354 | 4822 116 52175 | 100Ω 5% 0.5W |
| 3355 | 4822 117 12516 | 680Ω 2% 0.5W |
| 3356 | 4822 116 52226 | 560Ω 5% 0.5W |
| 3359 | 4822 050 11002 | 1k 1% 0.4W |
| 3360 | 4822 116 52195 | 47Ω 5% 0.5W |
| 3363 | 4822 051 20008 | Jumper 0805 |
| 3364 | 4822 051 20008 | Jumper 0805 |
| 3372▲ | 4822 052 10688 | 6Ω 5% 0.33W |
| 3373▲ | 4822 052 10331 | 330Ω 5% 0.33W |
| 3382 | 4822 116 52191 | 33Ω 5% 0.5W |
| 3383 | 4822 117 13016 | VDR 1mA/50V MAX 115V |
| 3385 | 4822 117 13016 | VDR 1mA/50V MAX 115V |
| 3386 | 4822 116 52191 | 33Ω 5% 0.5W |
| 3396 | 4822 052 11152 | 1k5 5% 0.5W |
| 3397 | 4822 052 11152 | 1k5 5% 0.5W |
| 3400▲ | 4822 052 10109 | 10Ω 5% 0.33W |
| 3401 | 4822 051 20332 | 3k3 5% 0.1W |
| 3402 | 4822 117 12955 | 2k7 1% 0.1W 0805 |
| 3403 | 4822 117 11449 | 2k2 1% 0.1W |
| 3404 | 4822 117 11448 | 180Ω 1% 0.1W |
| 3405 | 4822 117 10965 | 18k 1% 0.1W |
| 3406 | 4822 117 11449 | 2k2 1% 0.1W |
| 3407 | 4822 116 52219 | 330Ω 5% 0.5W |
| 3408 | 4822 051 20479 | 47Ω 5% 0.1W |
| 3409 | 4822 051 20478 | 4Q7 5% 0.1W |
| 3410 | 4822 051 10102 | 1k 2% 0.25W |
| 3411 | 4822 117 11148 | 56k 1% 0.1W |
| 3412 | 4822 117 11148 | 56k 1% 0.1W |
| 3413 | 4822 051 10102 | 1k 2% 0.25W |
| 3414 | 4822 053 12472 | 4k7 5% 3W |
| 3415 | 4822 051 20109 | 10Ω 5% 0.1W |
| 3416 | 4822 051 20182 | 1k8 5% 0.1W |
| 3417 | 4822 051 20109 | 10Ω 5% 0.1W |
| 3418 | 4822 117 13577 | 330Ω 1% RC12H 0805 1.25W |
| 3419 | 4822 116 52219 | 330Ω 5% 0.5W |

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|------|----------------|----------------|
| 3421 | 4822 117 10833 | 10k 1% 0.1W |
| 3422 | 4822 116 83883 | 470Ω 5% 0.5W |
| 3999 | 4822 117 10361 | 680Ω 1% 0.1W |
| 4xxx | 4822 051 10008 | 0Ω jumper 1206 |
| 4xxx | 4822 051 20008 | 0Ω jumper 0805 |

| | | |
|------|----------------|-----------|
| 5336 | 4822 157 11139 | 6.8µH 5% |
| 5346 | 4822 157 11139 | 6.8µH 5% |
| 5356 | 4822 157 11139 | 6.8µH 5% |
| 5372 | 4822 157 51216 | 5.6µH 10% |
| 5373 | 4822 157 51216 | 5.6µH 10% |
| 5400 | 4822 157 51216 | 5.6µH 10% |
| 5404 | 4822 157 10586 | 2.2µH 10% |



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|------|----------------|------------|
| 6324 | 4822 130 30621 | 1N4148 |
| 6325 | 5322 130 31504 | BZX79-B3V3 |
| 6335 | 4822 130 30842 | BAV21 |
| 6345 | 4822 130 30842 | BAV21 |
| 6355 | 4822 130 30842 | BAV21 |
| 6373 | 4822 130 42488 | BYD33 |
| 6409 | 4822 130 30621 | 1N4148 |
| 6410 | 4822 130 30621 | 1N4148 |



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|------|----------------|-------------|
| 7324 | 4822 130 60373 | BC856B |
| 7330 | 4822 209 33365 | TDA6111Q/N4 |
| 7340 | 4822 209 33365 | TDA6111Q/N4 |
| 7350 | 4822 209 33365 | TDA6111Q/N4 |
| 7400 | 4822 130 44154 | BF199 |
| 7405 | 4822 130 42589 | BF370 |
| 7414 | 5322 130 41888 | BD140-16 |
| 7415 | 5322 130 41886 | BD139-16 |

DC-shift panel [G]

Various

| | | |
|------|----------------|----------------|
| 0393 | 4822 267 10976 | 5P female h |
| 1500 | 3104 328 00750 | DC-shift panel |



| | | |
|------|----------------|----------------|
| 2030 | 4822 122 31177 | 470pF 10% 500V |
| 2031 | 4822 124 81029 | 100µF 20% 25V |
| 2032 | 4822 124 81029 | 100µF 20% 25V |
| 2033 | 4822 122 31177 | 470pF 10% 500V |



| | | |
|-------|----------------|-------------|
| 3030▲ | 4822 053 11689 | 68Ω 5% 2W |
| 3031▲ | 4822 052 10108 | 1Ω 5% 0.33W |
| 3032▲ | 4822 052 10108 | 1Ω 5% 0.33W |



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|------|----------------|---------------|
| 5030 | 4822 157 70006 | DC-shift coil |
|------|----------------|---------------|



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|------|----------------|-------|
| 6030 | 4822 130 42488 | BYD33 |
| 6033 | 4822 130 42488 | BYD33 |

Clickfit panel [J]

Various

| | | |
|------|----------------|--------------------|
| 0201 | 4822 265 11579 | Socket clickfit 4P |
| 0301 | 2422 025 06353 | 5P male |
| 2704 | 4822 122 30043 | 10nF 80% 63V |
| 2705 | 4822 122 30043 | 10nF 80% 63V |

Small Signal Panel [K1-8]

Various

| | | |
|------|----------------|-----------------------------|
| 0002 | 4822 267 10977 | IC socket 42P |
| 0008 | 5322 255 40958 | IC socket 8P |
| 0031 | 3104 304 19595 | SSP frame |
| 0032 | 3104 304 19644 | Module support bracket |
| 0310 | 4822 267 10964 | 9P male red |
| 0311 | 4822 267 10978 | 7P male black |
| 0315 | 4822 267 10979 | 9P male black |
| 0328 | 4822 267 10981 | 11P male black |
| 0333 | 4822 267 10962 | 11P male v |
| 0340 | 4822 267 10974 | 9P male v |
| 0341 | 4822 267 10974 | 9P male v |
| 0344 | 4822 267 10963 | 3P male |
| 0351 | 2422 025 15385 | 11P male v |
| 0352 | 4822 267 10962 | 11P male v |
| 0353 | 2422 025 15384 | 9P male v |
| 0356 | 4822 267 10963 | 3P male |
| 0361 | 2422 025 15384 | 9P male v |
| 0362 | 2422 025 15384 | 9P male v |
| 0373 | 4822 267 10978 | 7P male v |
| 0381 | 4822 267 10963 | 3P male |
| 1001 | 4822 242 10972 | Crystal 6MHz |
| 1020 | 3104 328 00991 | SSP MT EU CF LTP FAL |
| 1020 | 3104 328 02021 | SSP MT CF LTP EPG FAL P+ |
| 1101 | 3139 147 14591 | Splitter PS1311/I |
| 1102 | 3139 147 14121 | Tuner UV1316/A P-2 |
| 1102 | 4822 210 10841 | Tuner UV1316/A I-2 |
| 1105 | 4822 242 10688 | Filter OFWK9456M |
| 1107 | 4822 242 72211 | Filter 5.5MHz |
| 1109 | 4822 242 81436 | Filter OFWK3953M |
| 1198 | 3104 301 08351 | Cable phono-phono 120mm |
| 1200 | 4822 267 11033 | Socket cinch 3P |
| 1201 | 4822 267 10771 | Socket 2 x scart black |
| 1202 | 4822 267 10771 | Socket 2 x scart black |
| 1202 | 4822 267 60385 | Socket 1 x scart black |
| 1305 | 5322 242 73686 | Crystal 12MHz |
| 1525 | 4822 242 10695 | Crystal 4.433 619 MHz |
| 1528 | 4822 242 10697 | Crystal 3.579 545 MHz |
| 1751 | 4822 242 10434 | Crystal 18,432MHz |
| 8310 | 3104 301 08303 | Cable 9P 680mm |
| 8330 | 3104 301 08952 | Cable 7P 820mm |



| | | |
|------|----------------|--------------------|
| 2001 | 4822 126 14585 | 100nF 10% 50V |
| 2002 | 4822 126 14305 | 100nF 10% 16V 0603 |
| 2003 | 4822 126 14305 | 100nF 10% 16V 0603 |
| 2005 | 4822 126 14305 | 100nF 10% 16V 0603 |
| 2006 | 4822 126 14305 | 100nF 10% 16V 0603 |
| 2007 | 4822 126 14305 | 100nF 10% 16V 0603 |
| 2008 | 4822 126 14305 | 100nF 10% 16V 0603 |
| 2009 | 4822 126 14305 | 100nF 10% 16V 0603 |
| 2010 | 4822 126 14305 | 100nF 10% 16V 0603 |
| 2011 | 4822 126 14305 | 100nF 10% 16V 0603 |
| 2012 | 4822 126 14305 | 100nF 10% 16V 0603 |
| 2013 | 4822 126 14076 | 220nF 80-20% 25V |
| 2014 | 4822 126 11669 | 27pF |
| 2015 | 4822 126 14585 | 100nF 10% 50V |
| 2016 | 5322 122 32659 | 33pF 5% 50V |
| 2018 | 4822 124 40248 | 10µF 20% 63V |
| 2019 | 4822 126 14305 | 100nF 10% 16V 0603 |
| 2020 | 5322 122 32658 | 22pF 5% 50V |
| 2021 | 4822 126 14585 | 100nF 10% 50V |
| 2022 | 4822 126 14076 | 220nF 80-20% 25V |
| 2023 | 4822 126 14305 | 100nF 10% 16V 0603 |
| 2024 | 5322 126 11578 | 1nF 10% 50V 0603 |
| 2025 | 4822 126 14305 | 100nF 10% 16V 0603 |
| 2026 | 4822 126 14305 | 100nF 10% 16V 0603 |
| 2027 | 4822 126 14305 | 100nF 10% 16V 0603 |
| 2028 | 4822 126 14305 | 100nF 10% 16V 0603 |
| 2029 | 4822 124 40433 | 47µF 20% 25V |
| 2030 | 4822 124 40433 | 47µF 20% 25V |
| 2031 | 4822 126 14305 | 100nF 10% 16V 0603 |
| 2032 | 4822 126 14305 | 100nF 10% 16V 0603 |
| 2035 | 4822 126 14585 | 100nF 10% 50V |
| 2037 | 4822 126 14585 | 100nF 10% 50V |
| 2038 | 4822 126 14585 | 100nF 10% 50V |
| 2039 | 4822 126 13883 | 220pF 5% 50V |
| 2040 | 4822 122 33177 | 10nF 20% 50V |
| 2042 | 4822 122 33777 | 47pF 5% 63V |
| 2043 | 4822 122 33777 | 47pF 5% 63V |
| 2044 | 4822 122 33777 | 47pF 5% 63V |
| 2045 | 4822 124 41584 | 100µF 20% 10V |

| | | | | | | | | |
|------|----------------|--------------------|------|----------------|--------------------|------|----------------|-------------------|
| 2046 | 4822 126 14585 | 100nF 10% 50V | 2415 | 3198 021 90030 | 0Ω jumper 0603 | 2786 | 5322 122 31647 | 1nF 10% 63V |
| 2049 | 4822 126 14226 | 82pF 5% 50V 0603 | 2416 | 3198 021 90030 | 0Ω jumper 0603 | 2790 | 4822 122 33761 | 22pF 5% 50V |
| 2050 | 4822 126 14226 | 82pF 5% 50V 0603 | 2417 | 4822 126 14305 | 100nF 10% 16V 0603 | 2791 | 4822 122 33761 | 22pF 5% 50V |
| 2051 | 4822 126 14226 | 82pF 5% 50V 0603 | 2418 | 4822 124 40769 | 4.7μF 20% 100V | 2792 | 5322 126 11583 | 10nF 10% 50V 0603 |
| 2052 | 4822 126 14226 | 82pF 5% 50V 0603 | 2419 | 5322 122 32654 | 22nF 10% 63V | 2793 | 4822 122 33177 | 10nF 20% 50V |
| 2053 | 4822 126 14226 | 82pF 5% 50V 0603 | 2422 | 4822 124 22652 | 2.2μF 20% 50V | 2797 | 4822 122 33177 | 10nF 20% 50V |
| 2054 | 4822 126 14226 | 82pF 5% 50V 0603 | 2423 | 4822 124 21913 | 1μF 20% 63V | 2798 | 4822 122 33177 | 10nF 20% 50V |
| 2101 | 4822 124 40196 | 220μF 20% 16V | 2425 | 4822 122 33761 | 22pF 5% 50V | 2799 | 5322 122 32658 | 22pF 5% 50V |
| 2102 | 4822 126 13473 | 220nF 80-20% 50V | 2428 | 4822 126 13956 | 68pF 5% 63V 0603 | 2800 | 5322 122 32658 | 22pF 5% 50V |
| 2104 | 4822 122 33177 | 10nF 20% 50V | 2429 | 4822 126 13956 | 68pF 5% 63V 0603 | 2801 | 4822 122 33761 | 22pF 5% 50V |
| 2105 | 4822 122 33177 | 10nF 20% 50V | 2430 | 5322 122 32269 | 6.8pF 5% 50V | 2802 | 4822 122 32927 | 220nF 20% 50V |
| 2106 | 4822 122 33575 | 220pF 5% 63V CASE | 2436 | 4822 124 41842 | 47μF | 2803 | 4822 122 32927 | 220nF 20% 50V |
| 2107 | 4822 126 13694 | 68pF 1% 63V | 2501 | 4822 126 14305 | 100nF 10% 16V 0603 | 2804 | 4822 122 32927 | 220nF 20% 50V |
| 2108 | 5322 122 31873 | 2.7pF 5% 100V | 2502 | 4822 126 14305 | 100nF 10% 16V 0603 | 2805 | 4822 122 32927 | 220nF 20% 50V |
| 2109 | 4822 124 22652 | 2.2μF 20% 50V | 2503 | 4822 126 14305 | 100nF 10% 16V 0603 | 2806 | 4822 122 32927 | 220nF 20% 50V |
| 2110 | 4822 124 21913 | 1μF 20% 63V | 2504 | 4822 126 14305 | 100nF 10% 16V 0603 | 2807 | 4822 122 32927 | 220nF 20% 50V |
| 2111 | 4822 126 14585 | 100nF 10% 50V | 2505 | 4822 126 14305 | 100nF 10% 16V 0603 | 2808 | 4822 124 12095 | 100μF 20% 16V |
| 2112 | 4822 122 33891 | 3.3nF 10% 63V | 2506 | 4822 126 14305 | 100nF 10% 16V 0603 | 2809 | 5322 126 10511 | 1nF 5% 50V |
| 2116 | 4822 124 41584 | 100μF 20% 10V | 2507 | 4822 126 14305 | 100nF 10% 16V 0603 | 2810 | 4822 122 33127 | 2.2nF 10% 63V |
| 2117 | 4822 126 13482 | 470nF 80/20% 16V | 2508 | 4822 126 14305 | 100nF 10% 16V 0603 | 2811 | 5322 126 10511 | 1nF 5% 50V |
| 2118 | 5322 122 33244 | 8.2pF 5% 50V | 2509 | 4822 126 14305 | 100nF 10% 16V 0603 | 2813 | 5322 126 11583 | 10nF 10% 50V 0603 |
| 2119 | 5322 122 31863 | 330pF 5% 63V | 2510 | 4822 126 14305 | 100nF 10% 16V 0603 | 2814 | 5322 126 11583 | 10nF 10% 50V 0603 |
| 2120 | 4822 126 14076 | 220nF 80-20% 25V | 2511 | 4822 126 14305 | 100nF 10% 16V 0603 | 2815 | 5322 126 11583 | 10nF 10% 50V 0603 |
| 2121 | 4822 124 41584 | 100μF 20% 10V | 2512 | 4822 126 14305 | 100nF 10% 16V 0603 | 2816 | 4822 124 12095 | 100μF 20% 16V |
| 2125 | 4822 122 33177 | 10nF 20% 50V | 2520 | 4822 126 14305 | 100nF 10% 16V 0603 | 2817 | 5322 126 11583 | 10nF 10% 50V 0603 |
| 2126 | 4822 124 40433 | 47μF 20% 25V | 2521 | 4822 126 14305 | 100nF 10% 16V 0603 | 2818 | 4822 124 12095 | 100μF 20% 16V |
| 2127 | 4822 126 14076 | 220nF 80-20% 25V | 2522 | 5322 126 11579 | 3.3nF 10% 63V | 2819 | 4822 124 12095 | 100μF 20% 16V |
| 2202 | 5322 122 31863 | 330pF 5% 63V | 2525 | 4822 126 14507 | 18pF 5% 50V 0603 | 2820 | 5322 126 11578 | 1nF 10% 50V 0603 |
| 2203 | 5322 122 31863 | 330pF 5% 63V | 2528 | 4822 122 33752 | 15pF 5% 50V | 2821 | 4822 122 33177 | 10nF 20% 50V |
| 2204 | 4822 126 14305 | 100nF 10% 16V 0603 | 2532 | 4822 126 14043 | 1μF 20% 16V CASE | 2822 | 5322 126 11578 | 1nF 10% 50V 0603 |
| 2205 | 4822 124 40248 | 10μF 20% 63V | 2534 | 5322 126 10223 | 4.7nF 10% 63V | 2824 | 4822 124 12095 | 100μF 20% 16V |
| 2206 | 5322 122 32531 | 100pF 5% 50V | 2535 | 4822 126 14491 | 2.2μF 10V | 2825 | 4822 122 33177 | 10nF 20% 50V |
| 2209 | 5322 122 31863 | 330pF 5% 63V | 2536 | 4822 126 14585 | 100nF 10% 50V | 2826 | 4822 122 33761 | 22pF 5% 50V |
| 2210 | 5322 122 32531 | 100pF 5% 50V | 2537 | 4822 126 14585 | 100nF 10% 50V | 2827 | 5322 126 11578 | 1nF 10% 50V 0603 |
| 2212 | 4822 124 40248 | 10μF 20% 63V | 2538 | 4822 124 40433 | 47μF 20% 25V | 2828 | 4822 122 33177 | 10nF 20% 50V |
| 2213 | 4822 126 14305 | 100nF 10% 16V 0603 | 2539 | 4822 126 14305 | 100nF 10% 16V 0603 | 2829 | 5322 126 11578 | 1nF 10% 50V 0603 |
| 2215 | 5322 122 31863 | 330pF 5% 63V | 2540 | 4822 124 40433 | 47μF 20% 25V | 2830 | 4822 122 33177 | 10nF 20% 50V |
| 2216 | 5322 122 31863 | 330pF 5% 63V | 2541 | 5322 122 32654 | 22nF 10% 63V | 2831 | 4822 124 12095 | 100μF 20% 16V |
| 2217 | 5322 122 32531 | 100pF 5% 50V | 2545 | 4822 126 14305 | 100nF 10% 16V 0603 | 2832 | 4822 126 14494 | 22nF 10% 25V 0603 |
| 2219 | 5322 122 31863 | 330pF 5% 63V | 2550 | 4822 126 14305 | 100nF 10% 16V 0603 | 2833 | 4822 126 14494 | 22nF 10% 25V 0603 |
| 2220 | 5322 122 32531 | 100pF 5% 50V | 2551 | 5322 122 32448 | 10pF 5% 63V | 2836 | 4822 126 13692 | 47pF 1% 63V |
| 2221 | 4822 126 14076 | 220nF 80-20% 25V | 2552 | 5322 122 32269 | 6.8pF 5% 50V | 2837 | 5322 126 11583 | 10nF 10% 50V 0603 |
| 2222 | 4822 124 81286 | 47μF 20% 16V | 2553 | 4822 126 13838 | 100nF 50V 20% | 2838 | 4822 122 33761 | 22pF 5% 50V |
| 2224 | 5322 122 32531 | 100pF 5% 50V | 2554 | 4822 126 13838 | 100nF 50V 20% | 2839 | 5322 126 11583 | 10nF 10% 50V 0603 |
| 2226 | 5322 122 32531 | 100pF 5% 50V | 2555 | 4822 126 14305 | 100nF 10% 16V 0603 | 2840 | 5322 126 11583 | 10nF 10% 50V 0603 |
| 2228 | 5322 122 31863 | 330pF 5% 63V | 2556 | 4822 126 14305 | 100nF 10% 16V 0603 | 2841 | 4822 126 13482 | 470nF 80/20% 16V |
| 2229 | 5322 122 31863 | 330pF 5% 63V | 2557 | 4822 126 14305 | 100nF 10% 16V 0603 | 2842 | 5322 124 41979 | 10μF 10% 16V |
| 2235 | 4822 122 33891 | 3.3nF 10% 63V | 2558 | 4822 126 14305 | 100nF 10% 16V 0603 | 2843 | 4822 126 14491 | 2.2μF 10V |
| 2240 | 5322 122 32531 | 100pF 5% 50V | 2559 | 4822 124 40207 | 100μF 20% 25V | 2844 | 4822 126 14043 | 1μF 20% 16V |
| 2241 | 5322 122 32531 | 100pF 5% 50V | 2560 | 4822 126 14305 | 100nF 10% 16V 0603 | 2845 | 4822 126 14043 | 1μF 20% 16V |
| 2242 | 5322 124 41979 | 10μF 10% 16V | 2561 | 4822 124 81286 | 47μF 20% 16V | 2846 | 5322 124 41979 | 10μF 10% 16V |
| 2243 | 4822 126 14076 | 220nF 80-20% 25V | 2562 | 4822 126 14305 | 100nF 10% 16V 0603 | 2847 | 5322 124 41979 | 10μF 10% 16V |
| 2244 | 4822 126 14076 | 220nF 80-20% 25V | 2563 | 4822 124 81286 | 47μF 20% 16V | 2848 | 5322 124 41979 | 10μF 10% 16V |
| 2245 | 4822 126 14076 | 220nF 80-20% 25V | 2567 | 5322 126 10184 | 820pF 5% 50V | 2849 | 5322 124 41979 | 10μF 10% 16V |
| 2246 | 4822 126 14076 | 220nF 80-20% 25V | 2568 | 4822 122 31765 | 100pF 2% 63V | 2852 | 4822 122 32927 | 220nF 20% 50V |
| 2247 | 4822 126 14076 | 220nF 80-20% 25V | 2569 | 4822 122 33177 | 10nF 20% 50V | 2853 | 4822 122 32927 | 220nF 20% 50V |
| 2248 | 4822 126 14076 | 220nF 80-20% 25V | 2751 | 4822 122 33761 | 22pF 5% 50V | 2854 | 4822 122 32927 | 220nF 20% 50V |
| 2249 | 4822 126 14076 | 220nF 80-20% 25V | 2752 | 4822 126 13692 | 47pF 1% 63V | 2855 | 4822 122 32927 | 220nF 20% 50V |
| 2250 | 4822 126 14076 | 220nF 80-20% 25V | 2753 | 4822 122 32927 | 220nF 20% 50V | 2856 | 4822 122 32927 | 220nF 20% 50V |
| 2251 | 4822 124 41842 | 47μF | 2754 | 5322 122 32268 | 470pF 10% 50V | 2857 | 4822 122 32927 | 220nF 20% 50V |
| 2258 | 4822 126 14076 | 220nF 80-20% 25V | 2755 | 5322 122 32268 | 470pF 10% 50V | 2858 | 4822 122 32927 | 220nF 20% 50V |
| 2260 | 5322 122 31647 | 1nF 10% 63V | 2756 | 5322 122 32268 | 470pF 10% 50V | 2859 | 4822 122 32927 | 220nF 20% 50V |
| 2300 | 4822 124 40196 | 220μF 20% 16V | 2757 | 5322 122 32268 | 470pF 10% 50V | 2860 | 4822 122 32927 | 220nF 20% 50V |
| 2301 | 4822 126 13838 | 100nF 50V 20% | 2758 | 5322 122 32268 | 470pF 10% 50V | 2861 | 4822 122 32927 | 220nF 20% 50V |
| 2302 | 4822 126 13838 | 100nF 50V 20% | 2759 | 5322 122 32268 | 470pF 10% 50V | 2864 | 4822 124 81151 | 22μF 50V |
| 2303 | 4822 124 22652 | 2.2μF 20% 50V | 2760 | 5322 122 32268 | 470pF 10% 50V | 2870 | 4822 122 32927 | 220nF 20% 50V |
| 2304 | 4822 126 14305 | 100nF 10% 16V 0603 | 2761 | 4822 122 32927 | 220nF 20% 50V | 2871 | 4822 122 32927 | 220nF 20% 50V |
| 2307 | 4822 122 33741 | 10pF 10% 50V | 2762 | 4822 122 32927 | 220nF 20% 50V | 2872 | 4822 124 40207 | 100μF 20% 25V |
| 2308 | 4822 122 33741 | 10pF 10% 50V | 2763 | 5322 122 32268 | 470pF 10% 50V | 2873 | 5322 126 10511 | 1nF 5% 50V |
| 2311 | 4822 124 40196 | 220μF 20% 16V | 2764 | 5322 122 32268 | 470pF 10% 50V | 2887 | 4822 122 32927 | 220nF 20% 50V |
| 2312 | 4822 126 14305 | 100nF 10% 16V 0603 | 2765 | 4822 124 12095 | 100μF 20% 16V | 2888 | 4822 122 32927 | 220nF 20% 50V |
| 2313 | 4822 126 13694 | 68pF 1% 63V | 2766 | 4822 124 12095 | 100μF 20% 16V | 2890 | 4822 126 14076 | 220nF 80-20% 25V |
| 2315 | 5322 122 34098 | 10nF 10% 63V | 2767 | 5322 122 32268 | 3.3pF 5% 50V | 2891 | 4822 126 13838 | 100nF 50V 20% |
| 2321 | 4822 126 13881 | 470pF 5% 50V | 2768 | 5322 122 32268 | 3.3pF 5% 50V | 2892 | 4822 126 13482 | 470nF 80/20% 16V |
| 2322 | 4822 126 13881 | 470pF 5% 50V | 2769 | 4822 126 13482 | 470nF 80/20% 16V | 2895 | 4822 122 33177 | 10nF 20% 50V |
| 2323 | 5322 121 42386 | 100nF 5% 63V | 2770 | 5322 126 11583 | 10nF 10% 50V 0603 | | | |
| 2331 | 5322 126 11583 | 10nF 10% 50V 0603 | 2771 | 4822 122 33177 | 10nF 20% 50V | | | |
| 2340 | 4822 126 13881 | 470pF 5% 50V | 2772 | 4822 122 33761 | 22pF 5% 50V | | | |
| 2343 | 5322 122 32448 | 10pF 5% 63V | 2773 | 5322 122 31647 | 1nF 10% 63V | | | |
| 2344 | 4822 126 14305 | 100nF 10% 16V 0603 | 2774 | 5322 122 31647 | 1nF 10% 63V | | | |
| 2351 | 4822 126 13849 | 220nF 10% 16V | 2775 | 4822 126 13482 | 470nF 80/20% 16V | | | |
| 2403 | 4822 126 13838 | 100nF 50V 20% | 2776 | 4822 122 33761 | 22pF 5% 50V | | | |
| 2404 | 4822 126 13838 | 100nF 50V 20% | 2777 | 5322 124 41979 | 10μF 10% 16V | | | |
| 2405 | 4822 126 13838 | 100nF 50V 20% | 2778 | 5322 124 41979 | 10μF 10% 16V | | | |
| 2406 | 4822 126 14305 | 100nF 10% 16V 0603 | 2779 | 4822 126 13838 | 100nF 50V 20% | | | |
| 2407 | 4822 126 14305 | 100nF 10% 16V 0603 | 2780 | 5322 124 41979 | 10μF 10% 16V | | | |
| 2408 | 4822 126 14305 | 100nF 10% 16V 0603 | 2781 | 4822 126 13838 | 100nF 50V 20% | | | |
| 2410 | 4822 126 14305 | 100nF 10% 16V 0603 | | | | | | |

| | | | | | | | | |
|-------|----------------|--------------------|-------|----------------|--------------------|-------|------------------|--------------------|
| 3016 | 4822 051 30102 | 1k 5% 0.062W | 3228 | 4822 051 30101 | 100Ω 5% 0.062W | 3344 | 4822 051 30103 | 10k 5% 0.062W |
| 3017 | 4822 051 30102 | 1k 5% 0.062W | 3229 | 4822 051 30103 | 10k 5% 0.062W | 3350 | 4822 051 30474 | 470k 5% 0.062W |
| 3018 | 4822 051 30221 | 220Ω 5% 0.062W | 3230 | 4822 051 20561 | 560Ω 5% 0.1W | 3351 | 4822 117 12891 | 220k 1% |
| 3019 | 4822 051 30681 | 680Ω 5% 0.062W | 3231 | 4822 051 20399 | 39Ω 5% 0.1W | 3352 | 4822 051 30332 | 3k3 5% 0.062W |
| 3020 | 4822 051 30221 | 220Ω 5% 0.062W | 3232 | 4822 117 12521 | 68Ω 1% 0.1W | 3353 | 4822 117 12903 | 1k8 1% 0.063W 0603 |
| 3021 | 4822 051 30221 | 220Ω 5% 0.062W | 3233 | 4822 117 10353 | 150Ω 1% 0.1W | 3369 | 4822 051 30103 | 10k 5% 0.062W |
| 3022 | 4822 051 10102 | 1k 2% 0.25W | 3235 | 4822 117 10353 | 150Ω 1% 0.1W | 3370 | 4822 051 30103 | 10k 5% 0.062W |
| 3023 | 4822 117 13521 | 470Ω 5% RESN 0.63W | 3236 | 4822 117 11927 | 75Ω 1% 0.1W | 3400 | 4822 117 11454 | 820Ω 1% 0.1W |
| 3024 | 4822 051 30471 | 470Ω 5% 0.062W | 3237 | 4822 051 20399 | 39Ω 5% 0.1W | 3401 | 4822 117 11454 | 820Ω 1% 0.1W |
| 3027 | 4822 117 13521 | 470Ω 5% RESN 0.63W | 3238 | 4822 051 30759 | 75Ω 5% 0.062W | 3402 | 4822 117 11454 | 820Ω 1% 0.1W |
| 3028 | 4822 117 13521 | 470Ω 5% RESN 0.63W | 3240 | 4822 117 11927 | 75Ω 1% 0.1W | 3404 | 4822 051 20479 | 47Ω 5% 0.1W |
| 3029 | 4822 051 30471 | 470Ω 5% 0.062W | 3241 | 4822 117 10353 | 150Ω 1% 0.1W | 3405 | 4822 051 20479 | 47Ω 5% 0.1W |
| 3030 | 4822 117 13522 | 100Ω 5% RESN 0.63W | 3242 | 4822 051 20822 | 8k2 5% 0.1W | 3406 | 4822 051 20479 | 47Ω 5% 0.1W |
| 3031 | 4822 117 13577 | 330Ω 1% 1.25W | 3243 | 4822 117 10353 | 150Ω 1% 0.1W | 3407 | 4822 117 10361 | 680Ω 1% 0.1W |
| 3032 | 4822 051 30471 | 470Ω 5% 0.062W | 3244 | 4822 051 10102 | 1k 2% 0.25W | 3408 | 4822 117 10361 | 680Ω 1% 0.1W |
| 3033 | 4822 117 13523 | 220Ω 5% RESN 0.63W | 3245 | 4822 051 20392 | 3k9 5% 0.1W | 3409 | 4822 117 10361 | 680Ω 1% 0.1W |
| 3034 | 4822 051 30103 | 10k 5% 0.062W | 3246 | 4822 051 10102 | 1k 2% 0.25W | 3420 | 4822 117 12925 | 47k 1% 0.063W 0603 |
| 3035 | 4822 051 30103 | 10k 5% 0.062W | 3248 | 4822 117 13577 | 330Ω 1% 1.25W | 3422 | 4822 117 11449 | 2k2 1% 0.1W |
| 3036 | 4822 117 13524 | 2.2k 5% RESN 0.63W | 3249 | 4822 117 12955 | 2k7 1% 0.1W 0805 | 3423 | 4822 117 11449 | 2k2 1% 0.1W |
| 3039 | 4822 051 30333 | 33k 5% 0.062W | 3250 | 4822 117 11139 | 1k5 1% 0.1W | 3425 | 4822 051 30155 | 1M5 5% 0.062W |
| 3041 | 4822 117 10833 | 10k 1% 0.1W | 3252 | 4822 051 20339 | 33Ω 5% 0.1W | 3426 | 4822 051 30333 | 33k 5% 0.062W |
| 3042 | 4822 051 20474 | 470k 5% 0.1W | 3253 | 4822 051 20391 | 390Ω 5% 0.1W | 3427 | 4822 051 30154 | 150k 5% 0.062W |
| 3043 | 4822 051 30472 | 4k7 5% 0.062W | 3254 | 4822 051 10102 | 1k 2% 0.25W | 3428 | 4822 051 30222 | 2k2 5% 0.062W |
| 3047 | 4822 117 13525 | 24k 1% 0.62W 0603 | 3255 | 4822 051 10102 | 1k 2% 0.25W | 3429 | 4822 117 12968 | 820Ω 5% 0.62W |
| 3048 | 4822 117 13526 | 150Ω 5% RESN 0.63W | 3256 | 4822 117 11927 | 75Ω 1% 0.1W | 3430 | 4822 051 30181 | 180Ω 5% 0.062W |
| 3059 | 4822 051 30681 | 680Ω 5% 0.062W | 3257 | 4822 117 10353 | 150Ω 1% 0.1W | 3431 | 4822 051 30682 | 6k8 5% 0.062W |
| 3062 | 4822 117 12925 | 47k 1% 0.063W 0603 | 3258 | 4822 117 10353 | 150Ω 1% 0.1W | 3432 | 4822 051 30101 | 100Ω 5% 0.062W |
| 3063 | 4822 051 30472 | 4k7 5% 0.062W | 3259 | 4822 051 30273 | 27k 5% 0.062W | 3433 | 4822 051 30101 | 100Ω 5% 0.062W |
| 3066 | 4822 117 10833 | 10k 1% 0.1W | 3262 | 4822 117 12925 | 47k 1% 0.063W 0603 | 3434▲ | 4822 052 10478 | 4Ω7 5% 0.33W |
| 3067 | 4822 051 30472 | 4k7 5% 0.062W | 3263 | 4822 051 30221 | 220Ω 5% 0.062W | 3436 | 4822 051 20008 | 0Ω jumper 0805 |
| 3068 | 4822 051 30103 | 10k 5% 0.062W | 3264 | 4822 051 20822 | 8k2 5% 0.1W | 3438 | 4822 117 10834 | 47k 1% 0.1W |
| 3069 | 4822 051 30689 | 68Ω 5% 0.063W 0603 | 3265 | 4822 117 12955 | 2k7 1% 0.1W 0805 | 3439 | 4822 117 10833 | 10k 1% 0.1W |
| 3070 | 4822 051 30103 | 10k 5% 0.062W | 3266 | 4822 117 10833 | 10k 1% 0.1W | 3440 | 4822 051 20333 | 33k 5% 0.1W |
| 3071 | 4822 051 30472 | 4k7 5% 0.062W | 3269 | 4822 051 30561 | 560Ω 5% 0.062W | 3441 | 4822 051 20223 | 22k 5% 0.1W |
| 3072 | 4822 117 10834 | 47k 1% 0.1W | 3270 | 4822 051 10102 | 1k 2% 0.25W | 3442 | 4822 051 20333 | 33k 5% 0.1W |
| 3073 | 4822 051 20472 | 4k7 5% 0.1W | 3271 | 4822 051 10102 | 1k 2% 0.25W | 3443 | 4822 051 20683 | 68k 5% 0.1W |
| 3075 | 4822 051 30472 | 4k7 5% 0.062W | 3272 | 4822 117 10353 | 150Ω 1% 0.1W | 3521 | 4822 117 13632 | 100k 1% 0603 0.62W |
| 3076 | 4822 051 30472 | 4k7 5% 0.062W | 3273 | 4822 051 20822 | 8k2 5% 0.1W | 3530 | 4822 051 30101 | 100Ω 5% 0.062W |
| 3080 | 4822 117 13522 | 100Ω 5% RESN 0.63W | 3274 | 4822 117 12955 | 2k7 1% 0.1W 0805 | 3531 | 4822 051 30101 | 100Ω 5% 0.062W |
| 3081 | 4822 051 30101 | 100Ω 5% 0.062W | 3275 | 4822 051 30339 | 33Ω 5% 0.062W | 3532 | 4822 116 83933 | 15k 1% 0.1W |
| 3102 | 4822 117 10833 | 10k 1% 0.1W | 3276 | 4822 051 30391 | 390Ω 5% 0.062W | 3538▲ | 4822 052 10478 | 4Ω7 5% 0.33W |
| 3103 | 4822 051 20101 | 100Ω 5% 0.1W | 3277 | 4822 051 30222 | 2k2 5% 0.062W | 3545 | 4822 051 30471 | 470Ω 5% 0.062W |
| 3104 | 4822 051 20101 | 100Ω 5% 0.1W | 3278 | 4822 051 30331 | 330Ω 5% 0.062W | 3546 | 4822 051 30471 | 470Ω 5% 0.062W |
| 3106 | 4822 051 20479 | 47Ω 5% 0.1W | 3279 | 4822 051 30151 | 150Ω 5% 0.062W | 3551 | 4822 051 30271 | 270Ω 5% 0.062W |
| 3110 | 4822 117 11449 | 2k2 1% 0.1W | 3280 | 4822 117 10353 | 150Ω 1% 0.1W | 3553 | 4822 117 10353 | 150Ω 1% 0.1W |
| 3111 | 4822 117 11449 | 2k2 1% 0.1W | 3281 | 4822 117 12903 | 1k8 1% 0.063W 0603 | 3554 | 4822 051 10102 | 1k 2% 0.25W |
| 3112 | 4822 051 20472 | 4k7 5% 0.1W | 3282 | 4822 117 13632 | 100k 1% 0603 0.62W | 3556 | 4822 117 10833 | 10k 1% 0.1W |
| 3114 | 4822 051 20472 | 4k7 5% 0.1W | 3283 | 4822 051 30683 | 68k 5% 0.062W | 3557 | 4822 051 30479 | 47Ω 5% 0.062W |
| 3118 | 4822 051 20391 | 390Ω 5% 0.1W | 3284 | 4822 117 13632 | 100k 1% 0603 0.62W | 3565 | 3198 021 90030 | 0Ω jumper 0603 |
| 3119 | 4822 051 20479 | 47Ω 5% 0.1W | 3285 | 4822 051 30683 | 68k 5% 0.062W | 3566 | 3198 021 90030 | 0Ω jumper 0603 |
| 3124 | 4822 051 30101 | 100Ω 5% 0.062W | 3286 | 4822 117 13632 | 100k 1% 0603 0.62W | 3567 | 4822 051 20101 | 100Ω 5% 0.1W |
| 3133 | 4822 117 12955 | 2k7 1% 0.1W 0805 | 3287 | 4822 051 30683 | 68k 5% 0.062W | 3568 | 4822 051 20471 | 470Ω 5% 0.1W |
| 3135 | 4822 051 20472 | 4k7 5% 0.1W | 3288 | 4822 051 30101 | 100Ω 5% 0.062W | 3569 | 4822 051 30479 | 47Ω 5% 0.062W |
| 3136 | 4822 117 11503 | 220Ω 1% 0.1W | 3289 | 4822 051 30101 | 100Ω 5% 0.062W | 3570 | 4822 117 13522 | 100Ω 5% RESN 0.63W |
| 3137 | 4822 051 10102 | 1k 2% 0.25W | 3290▲ | 4822 052 10688 | 6Ω8 5% 0.33W | 3583 | 4822 051 30101 | 100Ω 5% 0.062W |
| 3138 | 4822 117 11504 | 270Ω 1% 0.1W | 3291 | 4822 051 30561 | 560Ω 5% 0.062W | 3584 | 4822 051 30471 | 470Ω 5% 0.062W |
| 3139 | 4822 117 11139 | 1k5 1% 0.1W | 3292 | 4822 051 30103 | 10k 5% 0.062W | 3585 | 4822 051 30479 | 47Ω 5% 0.062W |
| 3140 | 4822 116 83933 | 15k 1% 0.1W | 3293 | 4822 051 30471 | 470Ω 5% 0.062W | 3750▲ | 4822 052 10228 | 2Ω2 5% 0.33W |
| 3141 | 4822 051 30333 | 33k 5% 0.062W | 3294 | 4822 051 30103 | 10k 5% 0.062W | 3751 | 4822 051 30223 | 22k 5% 0.062W |
| 3142 | 4822 051 30102 | 1k 5% 0.062W | 3295 | 4822 051 30471 | 470Ω 5% 0.062W | 3752 | 4822 051 30223 | 22k 5% 0.062W |
| 3143 | 4822 051 30102 | 1k 5% 0.062W | 3296 | 4822 051 30103 | 10k 5% 0.062W | 3753 | 4822 051 30562 | 5k6 5% 0.063W 0603 |
| 3145 | 4822 051 30101 | 100Ω 5% 0.062W | 3297 | 4822 051 30103 | 10k 5% 0.062W | 3753 | 4822 051 30682 | 6k8 5% 0.062W |
| 3146 | 4822 051 20223 | 22k 5% 0.1W | 3298 | 4822 117 13632 | 100k 1% 0603 0.62W | 3754 | 4822 051 30562 | 5k6 5% 0.063W 0603 |
| 3147▲ | 4822 052 10109 | 10Ω 5% 0.33W | 3299 | 4822 051 30683 | 68k 5% 0.062W | 3754 | 4822 051 30682 | 6k8 5% 0.062W |
| 3150▲ | 4822 052 10189 | 18Ω 5% 0.33W | 3300▲ | 4822 052 10688 | 6Ω8 5% 0.33W | 3755 | 4822 051 30101 | 100Ω 5% 0.062W |
| 3151▲ | 4822 052 10159 | 15Ω 5% 0.33W | 3302 | 4822 051 30101 | 100Ω 5% 0.062W | 3756 | 4822 051 30101 | 100Ω 5% 0.062W |
| 3200 | 4822 117 10353 | 150Ω 1% 0.1W | 3303 | 4822 051 30101 | 100Ω 5% 0.062W | 3758 | 4822 117 12925 | 47k 1% 0.063W 0603 |
| 3201 | 4822 117 10353 | 150Ω 1% 0.1W | 3304 | 4822 051 30101 | 100Ω 5% 0.062W | 3760 | 4822 117 12925 | 47k 1% 0.063W 0603 |
| 3202 | 4822 117 10353 | 150Ω 1% 0.1W | 3307 | 4822 051 30102 | 1k 5% 0.062W | 3761 | 4822 051 30682 | 6k8 5% 0.062W |
| 3203 | 4822 117 10353 | 150Ω 1% 0.1W | 3308 | 4822 051 30102 | 1k 5% 0.062W | 3762 | 4822 051 20472 | 4k7 5% 0.1W |
| 3204▲ | 4822 052 10688 | 6Ω8 5% 0.33W | 3309 | 4822 051 30333 | 33k 5% 0.062W | 3765 | 4822 051 30683 | 68k 5% 0.062W |
| 3205 | 4822 051 20471 | 470Ω 5% 0.1W | 3310 | 4822 051 20332 | 3k3 5% 0.1W | 3766 | 4822 051 30103 | 10k 5% 0.062W |
| 3206 | 4822 117 12521 | 68Ω 1% 0.1W | 3311 | 4822 051 30102 | 1k 5% 0.062W | 3767 | 4822 051 30683 | 68k 5% 0.062W |
| 3207 | 4822 051 20561 | 560Ω 5% 0.1W | 3312 | 4822 117 13632 | 100k 1% 0603 0.62W | 3768 | 4822 051 30103 | 10k 5% 0.062W |
| 3208 | 4822 051 20399 | 39Ω 5% 0.1W | 3315 | 4822 051 20182 | 1k8 5% 0.1W | 3769 | 4822 117 11507 | 6k8 1% 0.1W |
| 3209 | 4822 117 11927 | 75Ω 1% 0.1W | 3316 | 4822 051 10102 | 1k 2% 0.25W | 3770 | 4822 117 11507 | 6k8 1% 0.1W |
| 3210 | 4822 117 11927 | 75Ω 1% 0.1W | 3317 | 4822 051 30102 | 1k 5% 0.062W | 3771 | 4822 116 83933 | 15k 1% 0.1W |
| 3211 | 4822 117 11927 | 75Ω 1% 0.1W | 3318 | 4822 051 30102 | 1k 5% 0.062W | 3772 | 4822 116 83933 | 15k 1% 0.1W |
| 3212 | 4822 051 20399 | 39Ω 5% 0.1W | 3320 | 4822 051 30102 | 1k 5% 0.062W | 3773 | 4822 051 20472 | 4k7 5% 0.1W |
| 3213 | 4822 117 11927 | 75Ω 1% 0.1W | 3321 | 4822 051 30102 | 1k 5% 0.062W | 3776 | 4822 051 20333 | 33k 5% 0.1W |
| 3215 | 4822 117 11927 | 75Ω 1% 0.1W | 3322 | 4822 051 30102 | 1k 5% 0.062W | 3777 | 4822 117 11148 | 56k 1% 0.1W |
| 3216 | 4822 051 20822 | 8k2 5% 0.1W | 3323 | 4822 051 20393 | 39k 5% 0.1W | 3778 | 4822 051 20333 | 33k 5% 0.1W |
| 3218 | 4822 051 20392 | 3k9 5% 0.1W | 3325 | 4822 051 30102 | 1k 5% 0.062W | 3779 | 4822 117 11148 | 56k 1% 0.1W |
| 3219 | 4822 051 10102 | 1k 2% 0.25W | 3326 | 4822 051 30221 | 220Ω 5% 0.062W | 3780 | 4822 051 30682 | 6k8 5% 0.062W |
| 3220 | 4822 051 10102 | 1k 2% 0.25W | 3330 | 4822 051 30684 | 680k 5% 0.062W | 3781 | 4822 051 30561 | 560Ω 5% 0.062W |
| 3221 | 4822 117 10353 | 150Ω 1% 0.1W | 3331 | 4822 117 12925 | 47k 1% 0.063W 0603 | 3782 | 4822 051 30101</ | |

| | | | |
|------|----------------|--------------------------|--|
| 3786 | 4822 051 30223 | 22k 5% 0.062W | |
| 3787 | 4822 051 30223 | 22k 5% 0.062W | |
| 3788 | 4822 051 30682 | 6k8 5% 0.062W | |
| 3789 | 4822 051 30682 | 6k8 5% 0.062W | |
| 3790 | 4822 051 30223 | 22k 5% 0.062W | |
| 3791 | 4822 051 30223 | 22k 5% 0.062W | |
| 3792 | 4822 051 30682 | 6k8 5% 0.062W | |
| 3793 | 4822 051 30682 | 6k8 5% 0.062W | |
| 3794 | 4822 051 30223 | 22k 5% 0.062W | |
| 3795 | 4822 051 30223 | 22k 5% 0.062W | |
| 3796 | 4822 051 20121 | 120Ω 5% 0.1W | |
| 3797 | 4822 051 20121 | 120Ω 5% 0.1W | |
| 3798 | 4822 117 10834 | 47k 1% 0.1W | |
| 3799 | 4822 117 12925 | 47k 1% 0.063W 0603 | |
| 3811 | 4822 051 30101 | 100Ω 5% 0.062W | |
| 3812 | 4822 051 30101 | 100Ω 5% 0.062W | |
| 3813 | 4822 051 30101 | 100Ω 5% 0.062W | |
| 3814 | 4822 051 30101 | 100Ω 5% 0.062W | |
| 3817 | 4822 117 10837 | 100k 1% 0.1W | |
| 3818 | 4822 051 30101 | 100Ω 5% 0.062W | |
| 3819 | 4822 051 30101 | 100Ω 5% 0.062W | |
| 3820 | 4822 051 30101 | 100Ω 5% 0.062W | |
| 3821 | 4822 051 30332 | 3k3 5% 0.062W | |
| 3822 | 4822 051 30333 | 3k3 5% 0.062W | |
| 3823 | 4822 051 20472 | 4k7 5% 0.1W | |
| 3824 | 4822 051 20101 | 100Ω 5% 0.1W | |
| 3825 | 4822 051 30563 | 56k 5% 0.062W | |
| 3826 | 4822 117 10353 | 150Ω 1% 0.1W | |
| 3827 | 4822 051 30101 | 100Ω 5% 0.062W | |
| 3828 | 4822 117 12925 | 47k 1% 0.063W 0603 | |
| 3829 | 4822 117 12925 | 47k 1% 0.063W 0603 | |
| 3830 | 4822 051 20121 | 120Ω 5% 0.1W | |
| 3831 | 4822 051 20121 | 120Ω 5% 0.1W | |
| 3832 | 4822 051 10102 | 1k 2% 0.25W | |
| 3833 | 4822 051 30103 | 10k 5% 0.062W | |
| 3837 | 4822 051 30563 | 56k 5% 0.062W | |
| 3838 | 4822 051 30101 | 100Ω 5% 0.062W | |
| 3839 | 4822 051 30101 | 100Ω 5% 0.062W | |
| 3840 | 4822 051 30103 | 10k 5% 0.062W | |
| 3841 | 4822 051 30101 | 100Ω 5% 0.062W | |
| 3842 | 4822 117 12925 | 47k 1% 0.063W 0603 | |
| 3844 | 4822 117 12925 | 47k 1% 0.063W 0603 | |
| 3845 | 4822 117 12925 | 47k 1% 0.063W 0603 | |
| 3846 | 4822 117 12925 | 47k 1% 0.063W 0603 | |
| 3847 | 4822 117 12925 | 47k 1% 0.063W 0603 | |
| 3848 | 4822 051 30101 | 100Ω 5% 0.062W | |
| 3849 | 4822 051 30101 | 100Ω 5% 0.062W | |
| 3850 | 4822 051 20332 | 3k3 5% 0.1W | |
| 3851 | 4822 051 20332 | 3k3 5% 0.1W | |
| 3852 | 4822 051 30223 | 22k 5% 0.062W | |
| 3853 | 4822 051 30223 | 22k 5% 0.062W | |
| 3854 | 4822 117 10833 | 10k 1% 0.1W | |
| 3855 | 4822 117 10833 | 10k 1% 0.1W | |
| 3856 | 4822 117 10833 | 10k 1% 0.1W | |
| 3857 | 4822 117 10833 | 10k 1% 0.1W | |
| 3858 | 4822 117 10833 | 10k 1% 0.1W | |
| 3859 | 4822 117 10833 | 10k 1% 0.1W | |
| 3860 | 4822 117 10833 | 10k 1% 0.1W | |
| 3861 | 4822 117 10833 | 10k 1% 0.1W | |
| 3862 | 4822 117 11507 | 6k8 1% 0.1W | |
| 3864 | 4822 051 20223 | 22k 5% 0.1W | |
| 3866 | 4822 051 20101 | 100Ω 5% 0.1W | |
| 3867 | 4822 051 20101 | 100Ω 5% 0.1W | |
| 3877 | 4822 051 20332 | 3k3 5% 0.1W | |
| 3878 | 4822 051 20332 | 3k3 5% 0.1W | |
| 3879 | 4822 051 20332 | 3k3 5% 0.1W | |
| 3880 | 4822 051 20332 | 3k3 5% 0.1W | |
| 3881 | 4822 051 20332 | 3k3 5% 0.1W | |
| 3882 | 4822 051 20332 | 3k3 5% 0.1W | |
| 3883 | 4822 051 20822 | 8k2 5% 0.1W | |
| 3884 | 4822 117 11507 | 6k8 1% 0.1W | |
| 3885 | 4822 117 11148 | 56k 1% 0.1W | |
| 3886 | 4822 051 20393 | 39k 5% 0.1W | |
| 3887 | 4822 051 20101 | 100Ω 5% 0.1W | |
| 3888 | 4822 051 20562 | 5k6 5% 0.1W 0805 | |
| 3890 | 4822 051 30272 | 2k7 5% 0.062W | |
| 3890 | 3198 021 90030 | 0Ω jumper 0603 | |
| 3891 | 4822 051 30102 | 1k 5% 0.062W | |
| 3892 | 4822 117 12955 | 2k7 1% 0.1W 0805 | |
| 3893 | 4822 051 10102 | 1k 2% 0.25W | |
| 3894 | 4822 117 10834 | 47k 1% 0.1W | |
| 3895 | 4822 051 30103 | 10k 5% 0.062W | |
| 3897 | 4822 051 30472 | 4k7 5% 0.062W | |
| 3898 | 4822 051 30101 | 100Ω 5% 0.062W | |
| 4xxx | 4822 051 10008 | 0Ω jumper 1206 | |
| 4xxx | 4822 051 20008 | 0Ω jumper 0805 | |
| 4xxx | 3198 021 90030 | 0Ω jumper 0603 | |
| 5001 | 4822 157 11828 | 22U 20% 0805 | |
| 5002 | 4822 157 11775 | 6.8μH 5% | |
| 5101 | 4822 157 11775 | 6.8μH 5% | |
| 5102 | 4822 157 71303 | 0.39μH 10% | |
| 5103 | 4822 157 11776 | Coil var. 40.4MHz | |
| 5106 | 4822 157 10977 | 4.7μH 10% | |
| 5108 | 4822 157 11534 | Coil var. 78MHz | |
| 5301 | 4822 157 11876 | 6.8μH 10% 0805 | |
| 5302 | 4822 157 11876 | 6.8μH 10% 0805 | |
| 5305 | 4822 157 11778 | 5.6μH 10% 0805 | |
| 5306 | 4822 157 11778 | 5.6μH 10% 0805 | |
| 5307 | 4822 157 11778 | 5.6μH 10% 0805 | |
| 5501 | 4822 157 11775 | 6.8μH 5% | |
| 5502 | 4822 157 11775 | 6.8μH 5% | |
| 5540 | 4822 157 71304 | 1μH 10% | |
| 5553 | 4822 157 11855 | 68μH 10% 0805 | |
| 5559 | 4822 157 11775 | 6.8μH 5% | |
| 5560 | 4822 157 11775 | 6.8μH 5% | |
| 5562 | 4822 157 11775 | 6.8μH 5% | |
| 5751 | 4822 157 11775 | 6.8μH 5% | |
| 5752 | 4822 157 11775 | 6.8μH 5% | |
| 5753 | 4822 157 11775 | 6.8μH 5% | |
| 5754 | 4822 157 11876 | 6.8μH 10% 0805 | |
| 5755 | 4822 157 11876 | 6.8μH 10% 0805 | |
| 5756 | 4822 157 11775 | 6.8μH 5% | |
| 5757 | 4822 157 11876 | 6.8μH 10% 0805 | |
| 6001 | 4822 130 11422 | PLVA2650A | |
| 6002 | 4822 130 11422 | PLVA2650A | |
| 6003 | 4822 130 11422 | PLVA2650A | |
| 6004 | 4822 130 11422 | PLVA2650A | |
| 6006 | 4822 130 11422 | PLVA2650A | |
| 6008 | 4822 130 11422 | PLVA2650A | |
| 6009 | 4822 130 11422 | PLVA2650A | |
| 6012 | 4822 130 11422 | PLVA2650A | |
| 6013 | 4822 130 11422 | PLVA2650A | |
| 6017 | 4822 130 11422 | PLVA2650A | |
| 6019 | 4822 130 11422 | PLVA2650A | |
| 6021 | 4822 130 11422 | PLVA2650A | |
| 6023 | 4822 130 11422 | PLVA2650A | |
| 6025 | 4822 130 11423 | PLVA2656A | |
| 6026 | 4822 130 11423 | PLVA2656A | |
| 6037 | 4822 130 11366 | BZX284-C3V9 | |
| 6101 | 4822 130 11027 | BZX284-C33 | |
| 6103 | 4822 130 10414 | BA792 | |
| 6104 | 4822 130 10414 | BA792 | |
| 6106 | 4822 130 83757 | BAS216 | |
| 6107 | 4822 130 83757 | BAS216 | |
| 6200 | 4822 130 11413 | PDZ10B | |
| 6201 | 4822 130 11416 | PDZ6.8B | |
| 6202 | 4822 130 11413 | PDZ10B | |
| 6203 | 4822 130 11413 | PDZ10B | |
| 6204 | 4822 130 11416 | PDZ6.8B | |
| 6205 | 4822 130 11413 | PDZ10B | |
| 6206 | 4822 130 11413 | PDZ10B | |
| 6207 | 4822 130 11416 | PDZ6.8B | |
| 6208 | 4822 130 11413 | PDZ10B | |
| 6209 | 4822 130 11413 | PDZ10B | |
| 6210 | 4822 130 11416 | PDZ6.8B | |
| 6211 | 4822 130 11416 | PDZ6.8B | |
| 6212 | 4822 130 11416 | PDZ6.8B | |
| 6213 | 4822 130 11416 | PDZ6.8B | |
| 6214 | 4822 130 11413 | PDZ10B | |
| 6215 | 4822 130 11413 | PDZ10B | |
| 6216 | 4822 130 11413 | PDZ10B | |
| 6217 | 4822 130 11413 | PDZ10B | |
| 6218 | 4822 130 11031 | BZX284-C12 | |
| 6219 | 4822 130 11416 | PDZ6.8B | |
| 6220 | 4822 130 11413 | PDZ10B | |
| 6221 | 4822 130 11413 | PDZ10B | |
| 6222 | 4822 130 11416 | PDZ6.8B | |
| 6223 | 4822 130 11413 | PDZ10B | |
| 6224 | 4822 130 11413 | PDZ10B | |
| 6225 | 4822 130 11416 | PDZ6.8B | |
| 6226 | 4822 130 11416 | PDZ6.8B | |
| 6227 | 4822 130 11416 | PDZ6.8B | |
| 6228 | 4822 130 11416 | PDZ6.8B | |
| 6229 | 4822 130 11413 | PDZ10B | |
| 6230 | 4822 130 11413 | PDZ10B | |
| 6231 | 4822 130 11413 | PDZ10B | |
| 6232 | 4822 130 10794 | BZX284-C10 | |
| 6233 | 4822 130 11416 | PDZ6.8B | |
| 6234 | 4822 130 10794 | BZX284-C10 | |
| 6235 | 4822 130 10794 | BZX284-C10 | |
| 6236 | 4822 130 10794 | BZX284-C10 | |
| 6237 | 4822 130 10794 | BZX284-C10 | |
| 6238 | 4822 130 10654 | BAT254 | |
| 6240 | 4822 130 11413 | PDZ10B | |
| 6241 | 4822 130 11413 | PDZ10B | |
| 6242 | 4822 130 11413 | PDZ10B | |
| 6243 | 4822 130 11413 | PDZ10B | |
| 6244 | 4822 130 11416 | PDZ6.8B | |
| 6250 | 4822 130 10654 | BAT254 | |
| 6260 | 4822 130 10794 | BZX284-C10 | |
| 6261 | 4822 130 10794 | BZX284-C10 | |
| 6340 | 4822 130 83757 | BAS216 | |
| 6341 | 4822 130 11594 | BZX284-C47 | |
| 6344 | 4822 130 83757 | BAS216 | |
| 6350 | 4822 130 11414 | BZX284-C27 | |
| 6420 | 4822 130 83206 | MTZ5.6B2 | |
| 6422 | 4822 130 83757 | BAS216 | |
| 6424 | 4822 130 83757 | BAS216 | |
| 6429 | 4822 130 83206 | MTZ5.6B2 | |
| 6430 | 4822 130 83757 | BAS216 | |
| 6431 | 4822 130 83757 | BAS216 | |
| 6432 | 4822 130 83757 | BAS216 | |
| 6751 | 4822 130 11413 | PDZ10B | |
| 6752 | 4822 130 11413 | PDZ10B | |
| 6753 | 4822 130 11413 | PDZ10B | |
| 6754 | 4822 130 11413 | PDZ10B | |
| 6755 | 4822 130 11413 | PDZ10B | |
| 6756 | 4822 130 11413 | PDZ10B | |
| 6757 | 4822 130 83757 | BAS216 | |
| 7002 | 3104 317 01981 | Software MG31E11.0_01981 | |
| 7003 | 9352 629 88557 | SAA5801/011 V30 | |
| 7004 | 4822 130 60511 | BC847B | |
| 7005 | 4822 130 60373 | BC856B | |
| 7006 | 4822 130 60373 | BC856B | |
| 7007 | 4822 130 60511 | BC847B | |
| 7008 | 4822 209 16977 | M24C32-WB96 | |
| 7009 | 4822 209 16978 | LF33CV | |
| 7010 | 4822 209 73852 | PMBT2369 | |
| 7011 | 4822 130 11155 | PDTC114ET | |
| 7012 | 4822 130 60373 | BC856B | |
| 7013 | 4822 209 17308 | M29W400T-100M1 | |
| 7014 | 4822 130 60511 | BC847B | |
| 7015 | 4822 130 60373 | BC856B | |
| 7016 | 4822 130 60511 | BC847B | |
| 7103 | 4822 130 60511 | BC847B | |
| 7104 | 4822 130 60511 | BC847B | |
| 7107 | 4822 130 60373 | BC856B | |
| 7111 | 4822 130 60511 | BC847B | |
| 7200 | 4822 130 40959 | BC547B | |
| 7201 | 4822 130 40959 | BC547B | |
| 7203 | 4822 130 44568 | BC557B | |
| 7204 | 4822 130 60511 | BC847B | |
| 7205 | 4822 130 60511 | BC847B | |
| 7206 | 4822 130 60511 | BC847B | |
| 7207 | 4822 130 60373 | BC856B | |
| 7208 | 4822 209 12999 | TEA6415C | |
| 7216 | 4822 130 60511 | BC847B | |
| 7300 | 4822 209 16979 | TDA9330H/N1 | |
| 7341 | 4822 130 60373 | BC856B | |
| 7351 | 4822 130 60373 | BC856B | |
| 7402 | 4822 209 17311 | TDA9178T/N1 | |
| 7418 | 4822 130 60373 | BC856B | |
| 7419 | 4822 130 60373 | BC856B | |
| 7420 | 4822 130 60373 | BC856B | |
| 7424 | 4822 130 60373 | BC856B | |
| 7438 | 4822 130 10255 | MMUN2213 | |
| 7501 | 4822 209 17487 | TDA9320AH/N1 | |
| 7502 | 4822 130 60511 | BC847B | |
| 7555 | 4822 130 60373 | BC856B | |
| 7560 | 4822 209 12998 | SAA4961/V3/S1 | |
| 7561 | 4822 130 60511 | BC847B | |

Feature Box [L]

Various

| | | |
|------|----------------|-----------------------|
| 0025 | 3104 301 23823 | FBX-shield top |
| 0026 | 3104 301 23834 | FBX-shield bottom |
| 0300 | 2422 486 80737 | Socket IC 32P |
| 0361 | 2422 025 15389 | 9P male h |
| 0362 | 2422 025 15389 | 9P male h |
| 1002 | 4822 242 10685 | Crystal 12MHz |
| | 3104 328 01711 | FBX6 falconic no PAL+ |

-II-

| | | |
|------|----------------|--------------------|
| 2600 | 4822 126 14218 | 3.9pF 50V |
| 2601 | 4822 126 11669 | 27pF |
| 2602 | 4822 126 11663 | 12pF |
| 2603 | 4822 126 14218 | 3.9pF 50V |
| 2604 | 4822 126 11669 | 27pF |
| 2605 | 4822 126 11663 | 12pF |
| 2606 | 4822 126 14218 | 3.9pF 50V |
| 2607 | 4822 126 11669 | 27pF |
| 2608 | 4822 126 11663 | 12pF |
| 2610 | 4822 126 14225 | 56pF 5% 50V 0603 |
| 2611 | 4822 124 40769 | 4.7µF 20% 100V |
| 2612 | 4822 126 14585 | 100nF 10% 50V |
| 2613 | 4822 126 14225 | 56pF 5% 50V 0603 |
| 2614 | 4822 124 40255 | 100µF 20% 63V |
| 2615 | 4822 126 14585 | 100nF 10% 50V |
| 2616 | 4822 126 14585 | 100nF 10% 50V |
| 2617 | 4822 124 80791 | 470µF 20% 16V |
| 2618 | 4822 126 14585 | 100nF 10% 50V |
| 2619 | 4822 126 14585 | 100nF 10% 50V |
| 2620 | 5322 122 32654 | 22nF 10% 63V |
| 2621 | 4822 122 33752 | 15pF 5% 50V |
| 2622 | 4822 122 33777 | 47pF 5% 63V |
| 2623 | 4822 122 33753 | 150pF 5% 50V |
| 2624 | 4822 126 14494 | 22nF 10% 25V 0603 |
| 2625 | 4822 126 14585 | 100nF 10% 50V |
| 2626 | 4822 122 33752 | 15pF 5% 50V |
| 2627 | 4822 122 33777 | 47pF 5% 63V |
| 2628 | 4822 122 33753 | 150pF 5% 50V |
| 2629 | 4822 126 14494 | 22nF 10% 25V 0603 |
| 2630 | 4822 122 33752 | 15pF 5% 50V |
| 2631 | 4822 122 33777 | 47pF 5% 63V |
| 2632 | 4822 122 33753 | 150pF 5% 50V |
| 2633 | 4822 122 31765 | 100pF 2% 63V |
| 2634 | 4822 122 31765 | 100pF 2% 63V |
| 2635 | 4822 122 33761 | 22pF 5% 50V |
| 2636 | 4822 122 33761 | 22pF 5% 50V |
| 2637 | 4822 124 40769 | 4.7µF 20% 100V |
| 2638 | 4822 126 14585 | 100nF 10% 50V |
| 2639 | 4822 126 14507 | 18pF 5% 50V 0603 |
| 2640 | 4822 126 14507 | 18pF 5% 50V 0603 |
| 2648 | 4822 126 14043 | 1µF 20% 16V |
| 2651 | 4822 126 14585 | 100nF 10% 50V |
| 2652 | 4822 126 14305 | 100nF 10% 16V 0603 |
| 2654 | 4822 126 14305 | 100nF 10% 16V 0603 |
| 2656 | 4822 126 14305 | 100nF 10% 16V 0603 |
| 2659 | 4822 126 14494 | 22nF 10% 25V 0603 |
| 2662 | 4822 124 40255 | 100µF 20% 63V |
| 2663 | 4822 124 40255 | 100µF 20% 63V |
| 2664 | 4822 126 14507 | 18pF 5% 50V 0603 |
| 2665 | 4822 126 14507 | 18pF 5% 50V 0603 |
| 2666 | 4822 126 14507 | 18pF 5% 50V 0603 |
| 2670 | 4822 124 40248 | 10µF 20% 63V |
| 2671 | 4822 124 40248 | 10µF 20% 63V |
| 2672 | 4822 126 14305 | 100nF 10% 16V 0603 |
| 2673 | 4822 126 14585 | 100nF 10% 50V |
| 2677 | 4822 126 14585 | 100nF 10% 50V |
| 2680 | 5322 122 32311 | 470pF 10% 100V |
| 2681 | 4822 126 14585 | 100nF 10% 50V |
| 2682 | 4822 126 14305 | 100nF 10% 16V 0603 |
| 2683 | 4822 126 14585 | 100nF 10% 50V |
| 2684 | 4822 126 14305 | 100nF 10% 16V 0603 |
| 2685 | 4822 124 40248 | 10µF 20% 63V |
| 2686 | 4822 126 14305 | 100nF 10% 16V 0603 |
| 2687 | 4822 126 13691 | 27pF 1% 63V |
| 2690 | 4822 126 14305 | 100nF 10% 16V 0603 |

-III-

| | | |
|------|----------------|--------------------|
| 3600 | 4822 051 30391 | 390Ω 5% 0.062W |
| 3601 | 4822 117 12968 | 820Ω 5% 0.62W |
| 3602 | 4822 051 30391 | 390Ω 5% 0.062W |
| 3603 | 4822 051 30392 | 3k9 5% 0.063W 0603 |
| 3604 | 4822 117 13632 | 100k 1% 0603 0.62W |

| | | |
|-------|----------------|--------------------|
| 3605 | 4822 051 30272 | 2k7 5% 0.062W |
| 3607 | 4822 051 30391 | 390Ω 5% 0.062W |
| 3608 | 4822 117 12917 | 1Ω 5% 0.062W 0603 |
| 3609 | 4822 051 30102 | 1k 5% 0.062W |
| 3610 | 4822 051 30471 | 470Ω 5% 0.062W |
| 3613 | 4822 051 30472 | 4k7 5% 0.062W |
| 3614 | 4822 051 30472 | 4k7 5% 0.062W |
| 3615 | 4822 051 30109 | 10Ω 5% 0.062W |
| 3616 | 4822 051 30102 | 1k 5% 0.062W |
| 3617 | 4822 051 30472 | 4k7 5% 0.062W |
| 3619 | 4822 051 30472 | 4k7 5% 0.062W |
| 3620▲ | 4822 052 10109 | 10Ω 5% 0.33W |
| 3621 | 4822 051 30681 | 680Ω 5% 0.062W |
| 3622 | 4822 051 30221 | 220Ω 5% 0.062W |
| 3623 | 4822 117 13632 | 100k 1% 0603 0.62W |
| 3624 | 4822 051 30681 | 680Ω 5% 0.062W |
| 3625 | 4822 051 30221 | 220Ω 5% 0.062W |
| 3626 | 4822 117 13632 | 100k 1% 0603 0.62W |
| 3627 | 4822 117 11503 | 220Ω 1% 0.1W |
| 3628 | 4822 051 30221 | 220Ω 5% 0.062W |
| 3630 | 4822 117 13632 | 100k 1% 0603 0.62W |
| 3631 | 4822 051 30151 | 150Ω 5% 0.062W |
| 3632 | 4822 051 30332 | 3k3 5% 0.062W |
| 3633 | 4822 051 30151 | 150Ω 5% 0.062W |
| 3634 | 4822 051 30332 | 3k3 5% 0.062W |
| 3635 | 4822 051 30101 | 100Ω 5% 0.062W |
| 3636 | 4822 051 30101 | 100Ω 5% 0.062W |
| 3637 | 4822 051 30221 | 220Ω 5% 0.062W |
| 3638 | 4822 051 30221 | 220Ω 5% 0.062W |
| 3639 | 4822 051 30221 | 220Ω 5% 0.062W |
| 3640 | 4822 051 30105 | 1M 5% 0.062W |
| 3641 | 4822 051 20472 | 4k7 5% 0.1W |
| 3646 | 4822 051 20101 | 100Ω 5% 0.1W |
| 3647 | 4822 051 20101 | 100Ω 5% 0.1W |
| 3648 | 4822 051 30103 | 10k 5% 0.062W |
| 3649 | 4822 051 30102 | 1k 5% 0.062W |
| 3654 | 4822 051 10102 | 1k 2% 0.25W |
| 3676 | 4822 117 12139 | 22Ω 5% 0.062W |
| 3677 | 4822 051 30101 | 100Ω 5% 0.062W |
| 3678 | 4822 051 30681 | 680Ω 5% 0.062W |
| 3680 | 4822 051 20108 | 1Ω 5% 0.1W |
| 3681▲ | 4822 052 10109 | 10Ω 5% 0.33W |
| 3683 | 4822 051 10102 | 1k 2% 0.25W |
| 3687▲ | 4822 052 10109 | 10Ω 5% 0.33W |
| 3688 | 4822 117 12925 | 47k 1% 0.063W 0603 |
| 3689 | 4822 117 12925 | 47k 1% 0.063W 0603 |
| 3690 | 4822 117 12925 | 47k 1% 0.063W 0603 |
| 3691 | 4822 117 12925 | 47k 1% 0.063W 0603 |
| 3692 | 4822 117 12925 | 47k 1% 0.063W 0603 |
| 3693 | 4822 117 12925 | 47k 1% 0.063W 0603 |
| 3694 | 4822 117 12925 | 47k 1% 0.063W 0603 |
| 3695 | 4822 117 12925 | 47k 1% 0.063W 0603 |
| 3696 | 4822 117 12925 | 47k 1% 0.063W 0603 |
| 3697 | 4822 051 30479 | 47Ω 5% 0.062W |
| 3698 | 4822 051 30479 | 47Ω 5% 0.062W |
| 3699 | 4822 051 30331 | 330Ω 5% 0.062W |
| 4xxx | 4822 051 10008 | 0Ω jumper 1206 |
| 4xxx | 4822 051 20008 | 0Ω jumper 0805 |

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|------|----------------|------------------|
| 5600 | 4822 157 11778 | 5.6µH 10% 0805 |
| 5601 | 4822 157 11778 | 5.6µH 10% 0805 |
| 5602 | 4822 157 11778 | 5.6µH 10% 0805 |
| 5603 | 4822 157 11781 | Bead 100MHz 600Ω |
| 5604 | 4822 157 11781 | Bead 100MHz 600Ω |
| 5605 | 4822 157 11716 | Bead 100MHz 30Ω |
| 5606 | 4822 157 11716 | Bead 100MHz 30Ω |
| 5607 | 4822 157 11716 | Bead 100MHz 30Ω |
| 5608 | 4822 157 11876 | 6.8µH 10% 0805 |
| 5610 | 4822 157 11876 | 6.8µH 10% 0805 |
| 5611 | 4822 157 11716 | Bead 100MHz 30Ω |
| 5612 | 3198 018 38280 | 8.2µH 10% 0805 |
| 5613 | 4822 157 11876 | 6.8µH 10% 0805 |
| 5615 | 4822 157 11716 | Bead 100MHz 30Ω |
| 5631 | 4822 157 11716 | Bead 100MHz 30Ω |
| 5632 | 4822 157 11716 | Bead 100MHz 30Ω |
| 5633 | 4822 157 11716 | Bead 100MHz 30Ω |
| 5635 | 4822 157 11716 | Bead 100MHz 30Ω |
| 5638 | 4822 157 11716 | Bead 100MHz 30Ω |
| 5639 | 4822 157 11716 | Bead 100MHz 30Ω |
| 5640 | 4822 157 11716 | Bead 100MHz 30Ω |
| 5641 | 4822 157 11716 | Bead 100MHz 30Ω |
| 5642 | 4822 157 11716 | Bead 100MHz 30Ω |



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|------|----------------|-------------------|
| 7600 | 4822 130 60373 | BC856B |
| 7601 | 4822 130 60511 | BC847B |
| 7602 | 4822 209 17307 | MSM54V12222A-30JS |

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|------|----------------|------------------------|
| 7604 | 4822 209 73852 | PMBT2369 |
| 7605 | 4822 209 73852 | PMBT2369 |
| 7607 | 4822 130 60373 | BC856B |
| 7608 | 4822 130 60373 | BC856B |
| 7610 | 4822 130 60373 | BC856B |
| 7611 | 9352 626 35557 | SAA4978H/V2 |
| 7612 | 4822 130 60511 | BC847B |
| 7613 | 4822 130 60511 | BC847B |
| 7625 | 9322 127 85682 | IC socket 32P for 7999 |
| 7626 | 9352 613 73557 | SAA4992H/V1 |
| 7630 | 4822 209 15882 | MC33269D |
| 7631 | 4822 209 15882 | MC33269D |
| 7634 | 9322 136 43682 | MSM51V4223C-30RS |
| 7638 | 4822 209 17307 | MSM54V12222A-30JS |
| 7639 | 5322 209 60424 | 74HC573 |
| 7640 | 4822 209 17307 | MSM54V12222A-30JS |
| 7999 | 3104 317 02011 | Software FBX6 4.3 |

Full Dual Screen [M]

Various

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|------|----------------|-------------------------|
| 1198 | 3104 301 08351 | Cable phono-phono 120mm |
| 0351 | 2422 025 15391 | 11P male h |
| 0352 | 2422 025 15391 | 11P male h |
| 0353 | 2422 025 15389 | 9P male h |
| 1102 | 3139 147 14121 | Tuner UV1316/A P-2 |
| 1107 | 4822 242 72211 | Filter 5.5MHz |
| 1109 | 4822 242 81436 | Filter OFWK3953M |
| 1525 | 4822 242 10695 | Crystal 4.433 619 MHz |
| 1528 | 4822 242 10697 | Crystal 3.579 545 MHz |
| 1800 | 2422 086 10581 | Prot dev EV 65V 400mA |
| 1021 | 3104 328 03321 | FDS PIP EUR |

-II-

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|------|----------------|--------------------|
| 2101 | 4822 124 80195 | 470µF 20% 10V |
| 2102 | 4822 126 13473 | 220nF 80-20% 50V |
| 2104 | 4822 122 33177 | 10nF 20% 50V |
| 2105 | 4822 122 33177 | 10nF 20% 50V |
| 2106 | 4822 122 33575 | 220pF 5% 63V |
| 2107 | 4822 126 13694 | 68pF 1% 63V |
| 2108 | 5322 126 10225 | 1P5 5% |
| 2110 | 4822 124 21913 | 1µF 20% 63V |
| 2111 | 4822 126 14585 | 100nF 10% 50V |
| 2116 | 4822 124 12095 | 100µF 20% 16V |
| 2117 | 4822 126 14076 | 220nF 80-20% 25V |
| 2118 | 3198 016 38280 | 8.2pF 50V 0603 |
| 2120 | 4822 126 13473 | 220nF 80-20% 50V |
| 2122 | 5322 126 11579 | 3.3nF 10% 63V |
| 2140 | 4822 126 14491 | 2.2µF 10V |
| 2501 | 4822 126 14305 | 100nF 10% 16V 0603 |
| 2504 | 4822 126 14305 | 100nF 10% 16V 0603 |
| 2520 | 4822 126 14305 | 100nF 10% 16V 0603 |
| 2521 | 4822 126 14305 | 100nF 10% 16V 0603 |
| 2522 | 5322 126 11579 | 3.3nF 10% 63V |
| 2525 | 4822 126 14507 | 18pF 5% 50V 0603 |
| 2528 | 4822 122 33752 | 15pF 5% 50V |
| 2532 | 4822 126 14043 | 1µF 20% 16V |
| 2534 | 5322 126 10223 | 4.7nF 10% 63V |
| 2536 | 4822 126 14491 | 2.2µF 10V |
| 2537 | 4822 126 13838 | 100nF 50V 20% |
| 2538 | 4822 124 80151 | 47µF 16V |
| 2539 | 4822 126 13838 | 100nF 50V 20% |
| 2540 | 4822 124 80151 | 47µF 16V |
| 2541 | 4822 126 14585 | 100nF 10% 50V |
| 2545 | 4822 126 14305 | 100nF 10% 16V 0603 |
| 2748 | 4822 126 14305 | 100nF 10% 16V 0603 |
| 2749 | 4822 126 14305 | 100nF 10% 16V 0603 |
| 2752 | 4822 126 14305 | 100nF 10% 16V 0603 |
| 2753 | 4822 126 14305 | 100nF 10% 16V 0603 |
| 2754 | 4822 126 14305 | 100nF 10% 16V 0603 |
| 2755 | 4822 126 14305 | 100nF 10% 16V 0603 |
| 2756 | 4822 126 14305 | 100nF 10% 16V 0603 |
| 2757 | 4822 126 14305 | 100nF 10% 16V 0603 |
| 2758 | 4822 126 14043 | 1µF 20% 16V |
| 2759 | 4822 126 14305 | 100nF 10% 16V 0603 |
| 2761 | 4822 126 14305 | 100 |

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| 2774 | 4822 126 14305 | 100nF 10% 16V 0603 |
| 2775 | 4822 126 14305 | 100nF 10% 16V 0603 |
| 2776 | 4822 126 14305 | 100nF 10% 16V 0603 |
| 2777 | 4822 126 14305 | 100nF 10% 16V 0603 |
| 2778 | 4822 126 14305 | 100nF 10% 16V 0603 |
| 2779 | 4822 126 14305 | 100nF 10% 16V 0603 |
| 2780 | 4822 126 14305 | 100nF 10% 16V 0603 |
| 2781 | 4822 126 14305 | 100nF 10% 16V 0603 |
| 2782 | 4822 126 14305 | 100nF 10% 16V 0603 |
| 2787 | 4822 126 14305 | 100nF 10% 16V 0603 |
| 2788 | 5322 122 32531 | 100pF 5% 50V |
| 2789 | 4822 126 13692 | 47pF 1% 63V |
| 2797 | 4822 124 12095 | 100μF 20% 16V |
| 2798 | 4822 122 31765 | 100pF 2% 63V |
| 2800 | 4822 126 13879 | 220nF 20% 16V |
| 2801 | 4822 126 13879 | 220nF 20% 16V |
| 2802 | 4822 126 13879 | 220nF 20% 16V |
| 2803 | 4822 126 13879 | 220nF 20% 16V |
| 2804 | 4822 126 13879 | 220nF 20% 16V |
| 2805 | 4822 126 13879 | 220nF 20% 16V |
| 2807 | 4822 126 13838 | 100nF 50V 20% |
| 2840 | 4822 126 13838 | 100nF 50V 20% |
| 2845 | 4822 122 31765 | 100pF 2% 63V |
| 2860 | 4822 126 13838 | 100nF 50V 20% |
| 2880 | 5322 124 41945 | 22μF 20% 35V |
| 2881 | 4822 124 40433 | 47μF 20% 25V |
| 2882 | 4822 124 11912 | 220μF 20% 6.3V |
| 2883 | 4822 124 12095 | 100μF 20% 16V |
| 2884 | 4822 126 14491 | 2.2μF 10V |
| 2890 | 4822 126 14585 | 100nF 10% 50V |
| 2891 | 4822 126 14585 | 100nF 10% 50V |
| 2922 | 4822 126 14241 | 330pF 50V 0603 |
| 2923 | 4822 126 14305 | 100nF 10% 16V 0603 |
| 2932 | 4822 122 33753 | 150pF 5% 50V |
| 2934 | 4822 126 14305 | 100nF 10% 16V 0603 |
| 2942 | 4822 122 33753 | 150pF 5% 50V |
| 2944 | 4822 126 14305 | 100nF 10% 16V 0603 |
| 2972 | 4822 126 14241 | 330pF 50V 0603 |
| 2973 | 4822 126 14305 | 100nF 10% 16V 0603 |
| 2982 | 4822 122 33753 | 150pF 5% 50V |
| 2983 | 4822 126 14305 | 100nF 10% 16V 0603 |
| 2992 | 4822 122 33753 | 150pF 5% 50V |
| 2993 | 4822 126 14305 | 100nF 10% 16V 0603 |



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|-------|----------------|--------------------|
| 3100 | 4822 117 10833 | 10k 1% 0.1W |
| 3101 | 4822 051 20273 | 27k 5% 0.1W |
| 3102 | 4822 051 20562 | 5k6 5% 0.1W 0805 |
| 3103 | 4822 051 20101 | 100Ω 5% 0.1W |
| 3104 | 4822 051 20101 | 100Ω 5% 0.1W |
| 3106 | 4822 117 11927 | 75Ω 1% 0.1W |
| 3118 | 4822 051 20391 | 390Ω 5% 0.1W |
| 3119 | 4822 117 12521 | 68Ω 1% 0.1W |
| 3124 | 4822 051 20101 | 100Ω 5% 0.1W |
| 3135 | 4822 051 20472 | 4k7 5% 0.1W |
| 3136 | 4822 117 11503 | 220Ω 1% 0.1W |
| 3137 | 4822 051 10102 | 1k 2% 0.25W |
| 3138 | 4822 117 11504 | 270Ω 1% 0.1W |
| 3139 | 4822 117 11139 | 1k5 1% 0.1W |
| 3140 | 4822 051 20393 | 39k 5% 0.1W |
| 3144 | 4822 117 13632 | 100k 1% 0603 0.62W |
| 3145 | 4822 051 20121 | 120Ω 5% 0.1W |
| 3146 | 4822 051 20223 | 22k 5% 0.1W |
| 3151▲ | 4822 052 10128 | 1Ω2 5% 0.33W |
| 3501 | 4822 051 30101 | 100Ω 5% 0.062W |
| 3504 | 4822 051 30101 | 100Ω 5% 0.062W |
| 3521 | 4822 117 13632 | 100k 1% 0603 0.62W |
| 3530 | 4822 051 30101 | 100Ω 5% 0.062W |
| 3531 | 4822 051 30101 | 100Ω 5% 0.062W |
| 3532 | 4822 116 83933 | 15k 1% 0.1W |
| 3538▲ | 4822 052 10478 | 4Ω7 5% 0.33W |
| 3545 | 4822 051 30471 | 470Ω 5% 0.062W |
| 3546 | 4822 051 30471 | 470Ω 5% 0.062W |
| 3550 | 4822 051 20471 | 470Ω 5% 0.1W |
| 3750 | 4822 051 30393 | 39k 5% 0.062W |
| 3751 | 4822 051 30393 | 39k 5% 0.062W |
| 3752 | 4822 051 30103 | 10k 5% 0.062W |
| 3753 | 4822 051 30332 | 3k3 5% 0.062W |
| 3754 | 4822 117 11817 | 1k2 1% 1/16W |
| 3755 | 4822 117 13632 | 100k 1% 0603 0.62W |
| 3756 | 4822 051 30101 | 100Ω 5% 0.062W |
| 3757 | 4822 051 30101 | 100Ω 5% 0.062W |
| 3800 | 4822 117 12139 | 22Ω 5% 0.062W |
| 3801 | 4822 117 12139 | 22Ω 5% 0.062W |
| 3802 | 4822 117 12139 | 22Ω 5% 0.062W |
| 3840 | 4822 117 11503 | 220Ω 1% 0.1W |
| 3841 | 4822 117 11503 | 220Ω 1% 0.1W |
| 3842 | 4822 117 11503 | 220Ω 1% 0.1W |
| 3843 | 4822 117 11503 | 220Ω 1% 0.1W |

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| 3844 | 4822 051 30103 | 10k 5% 0.062W |
| 3845 | 4822 117 13632 | 100k 1% 0603 0.62W |
| 3880 | 4822 051 30102 | 1k 5% 0.062W |
| 3923 | 4822 051 30471 | 470Ω 5% 0.062W |
| 3924 | 4822 051 30101 | 100Ω 5% 0.062W |
| 3928 | 4822 051 30101 | 100Ω 5% 0.062W |
| 3930 | 4822 051 30151 | 150Ω 5% 0.062W |
| 3932 | 4822 051 30101 | 100Ω 5% 0.062W |
| 3935 | 4822 051 30102 | 1k 5% 0.062W |
| 3937 | 3198 021 90030 | 0Ω jumper 0603 |
| 3940 | 4822 051 30151 | 150Ω 5% 0.062W |
| 3942 | 4822 051 30101 | 100Ω 5% 0.062W |
| 3943 | 4822 051 30102 | 1k 5% 0.062W |
| 3947 | 3198 021 90030 | 0Ω jumper 0603 |
| 3950 | 4822 117 11504 | 270Ω 1% 0.1W |
| 3951 | 4822 051 20339 | 33Ω 5% 0.1W |
| 3952 | 4822 117 11504 | 270Ω 1% 0.1W |
| 3953 | 4822 117 11448 | 180Ω 1% 0.1W |
| 3954 | 4822 051 20391 | 390Ω 5% 0.1W |
| 3955 | 4822 117 11503 | 220Ω 1% 0.1W |
| 3956 | 4822 117 10361 | 680Ω 1% 0.1W |
| 3957 | 4822 117 10361 | 680Ω 1% 0.1W |
| 3958 | 4822 117 10361 | 680Ω 1% 0.1W |
| 3960 | 4822 051 10102 | 1k 2% 0.25W |
| 3961 | 4822 051 10102 | 1k 2% 0.25W |
| 3962 | 4822 051 10102 | 1k 2% 0.25W |
| 3963 | 4822 051 10102 | 1k 2% 0.25W |
| 3964 | 4822 051 10102 | 1k 2% 0.25W |
| 3965 | 4822 051 10102 | 1k 2% 0.25W |
| 3966 | 4822 051 20479 | 47Ω 5% 0.1W |
| 3967 | 4822 051 20479 | 47Ω 5% 0.1W |
| 3968 | 4822 051 20479 | 47Ω 5% 0.1W |
| 3972 | 4822 051 30471 | 470Ω 5% 0.062W |
| 3974 | 4822 051 30101 | 100Ω 5% 0.062W |
| 3978 | 4822 051 30101 | 100Ω 5% 0.062W |
| 3980 | 4822 051 30151 | 150Ω 5% 0.062W |
| 3981 | 4822 051 30101 | 100Ω 5% 0.062W |
| 3983 | 4822 051 30102 | 1k 5% 0.062W |
| 3987 | 3198 021 90030 | 0Ω jumper 0603 |
| 3990 | 4822 051 30151 | 150Ω 5% 0.062W |
| 3991 | 4822 051 30101 | 100Ω 5% 0.062W |
| 3992 | 4822 051 30102 | 1k 5% 0.062W |
| 3997 | 3198 021 90030 | 0Ω jumper 0603 |
| 3999 | 4822 117 11449 | 2k2 1% 0.1W |
| 4xxx | 4822 051 10008 | 0Ω jumper 1206 |
| 4xxx | 4822 051 20008 | 0Ω jumper 0805 |
| 4xxx | 3198 021 90030 | 0Ω jumper 0603 |

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|------|----------------|-------------------|
| 5101 | 4822 157 11775 | 6.8μH 5% |
| 5102 | 3198 018 35670 | 0.56μH 10% 0805 |
| 5103 | 4822 157 11776 | Coil var. 40.4MHz |
| 5106 | 4822 157 10977 | 4.7μH 10% |
| 5108 | 4822 157 11534 | Coil var. 78MHz |
| 5501 | 4822 157 11775 | 6.8μH 5% |
| 5502 | 4822 157 11775 | 6.8μH 5% |
| 5752 | 4822 157 71694 | 0.82μH 10% |
| 5880 | 2422 535 94406 | 2.7μH 10% |
| 5881 | 4822 157 71694 | 0.82μH 10% |
| 5882 | 4822 157 71694 | 0.82μH 10% |
| 5921 | 4822 157 71411 | 3.3μH 10% |
| 5971 | 4822 157 71411 | 3.3μH 10% |



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|------|----------------|-------------|
| 6106 | 4822 130 83757 | BAS216 |
| 6107 | 4822 130 83757 | BAS216 |
| 6753 | 4822 130 10414 | BA792 |
| 6850 | 4822 130 10414 | BA792 |
| 6880 | 4822 130 11088 | BZX284-C2V4 |
| 6881 | 4822 130 11088 | BZX284-C2V4 |
| 6883 | 4822 130 11422 | PLVA2650A |
| 6884 | 4822 130 11422 | PLVA2650A |



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| 7107 | 4822 130 60373 | BC856B |
| 7111 | 4822 130 60511 | BC847B |
| 7501 | 4822 209 16981 | TDA9320H/N1 |
| 7502 | 4822 130 60511 | BC847B |
| 7700 | 9352 615 51557 | SAB9079HS/N1 |
| 7750 | 9322 124 83668 | MSM5416283-60GS |
| 7800 | 4822 209 12776 | TDA8601T/C1 |
| 7821 | 9322 135 04668 | 74V1G08 |
| 7840 | 5322 209 11296 | 74HC4053N |
| 7850 | 4822 209 73852 | PMBT2369 |
| 7851 | 4822 130 10255 | MMUN2213 |
| 7860 | 4822 209 13252 | PCF8574TS/F3 |

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|------|----------------|-------------|
| 7880 | 4822 209 15882 | MC33269D |
| 7881 | 4822 209 15882 | MC33269D |
| 7900 | 4822 130 60383 | BF824 |
| 7901 | 4822 130 60383 | BF824 |
| 7902 | 4822 130 60383 | BF824 |
| 7903 | 4822 130 60383 | BF824 |
| 7904 | 4822 130 60383 | BF824 |
| 7905 | 4822 130 60383 | BF824 |
| 7920 | 4822 130 60511 | BC847B |
| 7930 | 4822 130 60511 | BC847B |
| 7940 | 4822 130 60511 | BC847B |
| 7970 | 4822 130 60511 | BC847B |
| 7980 | 4822 130 60511 | BC847B |
| 7990 | 4822 130 60511 | BC847B |
| 7991 | 4822 209 16868 | M24C04-WMN6 |

Multi Channel Sound [N]

Various

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|------|----------------|---------------------------|
| 0328 | 4822 267 10981 | 11P |
| 0329 | 4822 267 10962 | 11P |
| 0330 | 2422 025 14904 | 7P male v |
| 0347 | 4822 267 10969 | 3P |
| 0373 | 4822 267 10978 | 7P |
| 0381 | 4822 267 10963 | 3P |
| 1705 | 2422 086 10581 | Prot dev. 65V 400mA |
| 1804 | 2422 543 01016 | Crystal 40MHz |
| 1806 | 2422 543 01015 | Crystal 10MHz |
| 1805 | 4822 242 10964 | Crystal 16.9344MHz |
| 1807 | 4822 252 51169 | Fuse 0.250A |
| 1998 | 2422 025 16194 | Socket 8P for transmitter |
| 1999 | 2422 026 04961 | Socket cinch 6P |
| 8328 | 3104 301 08912 | Cable 11P 220mm |
| 8373 | 3104 301 08922 | Cable 7P 280mm |
| 8381 | 3104 301 08932 | Cable 3P 140mm |



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|------|----------------|--------------------|
| 2500 | 4822 126 14315 | 390pF 5% 50V 0603 |
| 2501 | 4822 126 14315 | 390pF 5% 50V 0603 |
| 2504 | 5322 126 11583 | 10nF 10% 50V 0603 |
| 2505 | 4822 126 14305 | 100nF 10% 16V 0603 |
| 2506 | 4822 126 14305 | 100nF 10% 16V 0603 |
| 2507 | 4822 126 11671 | 33pF |
| 2508 | 4822 126 11671 | 33pF |
| 2511 | 4822 126 12105 | 33nF 5% 50V |
| 2517 | 4822 122 31765 | 100pF 2% 63V |
| 2534 | 5322 126 11583 | 10nF 10% 50V 0603 |
| 2539 | 4822 126 14506 | 270pF 5% 50V 0603 |
| 2540 | 4822 126 14305 | 100nF 10% 16V 0603 |
| 2541 | 4822 126 14305 | 100nF 10% 16V 0603 |
| 2542 | 5322 124 41979 | 10μF 10% 16V |
| 2543 | 5322 124 41979 | 10μF 10% 16V |
| 2545 | 5322 124 41979 | 10μF 10% 16V |
| 2546 | 5322 124 41979 | 10μF 10% 16V |
| 2548 | 4822 126 14549 | 33nF 16V O6O3 |
| 2549 | 5322 126 11579 | 3.3nF 10% 63V |
| 2551 | 4822 126 14549 | 33nF 16V O6O3 |
| 2552 | 4822 126 14549 | 33nF 16V O6O3 |
| 2553 | 3198 017 34730 | 47nF 16V 0603 |
| 2555 | 5322 124 41979 | 10μF 10% 16V |
| 2556 | 5322 126 11579 | 3.3nF 10% 63V |
| 2557 | 4822 126 14549 | 33nF 16V O6O3 |
| 2560 | 3198 017 34730 | 47nF 16V 0603 |
| 2562 | 5322 124 41979 | 10μF 10% 16V |
| 2563 | 5322 124 41979 | 10μF 10% 16V |
| 2564 | 5322 124 41979 | 10μF 10% 16V |
| 2565 | 4822 126 14305 | 100nF 10% 16V 0603 |
| 2566 | 4822 126 14305 | 100nF 10% 16V 0603 |
| 2567 | 4822 126 11671 | 33pF |
| 2568 | 4822 126 11671 | 33pF |
| 2569 | 5322 124 41979 | 10μF 10% 16V |
| 2570 | 4822 126 14305 | 100nF 10% 16V 0603 |
| 2571 | 4822 126 14305 | 100nF 10% 16V 0603 |
| 2572 | 5322 124 41979 | 10μF 10% 16V |
| 2573 | 5322 124 41979 | 10μF 10% 16V |
| 2574 | 5322 124 | |

| | | | | | | | | |
|------|----------------|--------------------|------|----------------|--------------------|------|----------------|----------------|
| 2590 | 3198 017 34730 | 47nF 10V 0603 | 2793 | 4822 126 14506 | 270pF 5% 50V 0603 | 2893 | 4822 122 33761 | 22pF 5% 50V |
| 2592 | 5322 124 41979 | 10µF 10% 16V | 2794 | 5322 126 11583 | 10nF 10% 50V 0603 | 2894 | 4822 122 33761 | 22pF 5% 50V |
| 2593 | 5322 124 41979 | 10µF 10% 16V | 2795 | 5322 126 11583 | 10nF 10% 50V 0603 | 2900 | 5322 122 32531 | 100pF 5% 50V |
| 2594 | 5322 124 41979 | 10µF 10% 16V | 2796 | 4822 122 33177 | 10nF 20% 50V | 2901 | 4822 122 31765 | 100pF 2% 63V |
| 2595 | 4822 126 14305 | 100nF 10% 16V 0603 | 2797 | 4822 124 22652 | 2.2µF 20% 50V | 2909 | 4822 123 14025 | 2200µF 20% 16V |
| 2596 | 4822 126 14305 | 100nF 10% 16V 0603 | 2800 | 4822 126 14585 | 100nF 10% 50V | | | |
| 2597 | 4822 126 11671 | 33pF | 2802 | 4822 126 14585 | 100nF 10% 50V | | | |
| 2598 | 4822 126 11671 | 33pF | 2807 | 4822 126 14585 | 100nF 10% 50V | | | |
| 2599 | 5322 126 11583 | 10nF 10% 50V 0603 | 2809 | 4822 126 14585 | 100nF 10% 50V | | | |
| 2600 | 4822 126 14305 | 100nF 10% 16V 0603 | 2810 | 4822 126 14585 | 100nF 10% 50V | | | |
| 2601 | 4822 126 14305 | 100nF 10% 16V 0603 | 2811 | 4822 124 80151 | 47µF 16V | | | |
| 2602 | 5322 124 41979 | 10µF 10% 16V | 2812 | 4822 126 14305 | 100nF 10% 16V 0603 | | | |
| 2603 | 5322 124 41979 | 10µF 10% 16V | 2813 | 4822 126 14305 | 100nF 10% 16V 0603 | | | |
| 2605 | 5322 124 41979 | 10µF 10% 16V | 2814 | 4822 126 14305 | 100nF 10% 16V 0603 | | | |
| 2606 | 5322 124 41979 | 10µF 10% 16V | 2815 | 4822 126 14305 | 100nF 10% 16V 0603 | | | |
| 2607 | 5322 124 41979 | 10µF 10% 16V | 2816 | 4822 126 14305 | 100nF 10% 16V 0603 | | | |
| 2609 | 5322 126 11579 | 3.3nF 10% 63V | 2817 | 4822 126 14585 | 100nF 10% 50V | | | |
| 2611 | 4822 124 22652 | 2.2µF 20% 50V | 2818 | 4822 126 14305 | 100nF 10% 16V 0603 | | | |
| 2612 | 4822 124 40207 | 100µF 20% 25V | 2819 | 4822 126 14305 | 100nF 10% 16V 0603 | | | |
| 2613 | 3198 017 34730 | 47nF 16V 0603 | 2820 | 4822 126 13486 | 15pF 2% 63V | | | |
| 2620 | 3198 017 34730 | 47nF 16V 0603 | 2821 | 4822 126 13486 | 15pF 2% 63V | | | |
| 2622 | 5322 124 41979 | 10µF 10% 16V | 2822 | 4822 126 14585 | 100nF 10% 50V | | | |
| 2623 | 5322 124 41979 | 10µF 10% 16V | 2823 | 4822 124 80151 | 47µF 16V | | | |
| 2624 | 5322 124 41979 | 10µF 10% 16V | 2824 | 4822 126 14585 | 100nF 10% 50V | | | |
| 2625 | 4822 126 14305 | 100nF 10% 16V 0603 | 2825 | 4822 126 14585 | 100nF 10% 50V | | | |
| 2626 | 4822 126 14305 | 100nF 10% 16V 0603 | 2826 | 4822 126 14305 | 100nF 10% 16V 0603 | | | |
| 2627 | 4822 126 11671 | 33pF | 2827 | 4822 126 14305 | 100nF 10% 16V 0603 | | | |
| 2628 | 4822 126 11671 | 33pF | 2828 | 4822 124 80151 | 47µF 16V | | | |
| 2635 | 4822 126 14305 | 100nF 10% 16V 0603 | 2829 | 4822 126 14305 | 100nF 10% 16V 0603 | | | |
| 2636 | 4822 126 14305 | 100nF 10% 16V 0603 | 2830 | 4822 126 14305 | 100nF 10% 16V 0603 | | | |
| 2637 | 5322 121 42498 | 680nF 5% 63V | 2831 | 5322 126 11583 | 10nF 10% 50V 0603 | | | |
| 2638 | 5322 121 42498 | 680nF 5% 63V | 2832 | 3198 016 31020 | 0603 25V 1nF | | | |
| 2639 | 4822 126 14305 | 100nF 10% 16V 0603 | 2833 | 4822 126 13486 | 15pF 2% 63V | | | |
| 2641 | 5322 121 42498 | 680nF 5% 63V | 2834 | 4822 126 13486 | 15pF 2% 63V | | | |
| 2643 | 4822 126 11671 | 33pF | 2835 | 4822 124 80151 | 47µF 16V | | | |
| 2667 | 4822 126 14494 | 22nF 10% 25V 0603 | 2836 | 4822 126 14305 | 100nF 10% 16V 0603 | | | |
| 2668 | 5322 126 11583 | 10nF 10% 50V 0603 | 2837 | 4822 122 33177 | 10nF 20% 50V | | | |
| 2669 | 4822 126 11671 | 33pF | 2838 | 4822 122 33761 | 22pF 5% 50V | | | |
| 2679 | 4822 126 14585 | 100nF 10% 50V | 2839 | 4822 122 33761 | 22pF 5% 50V | | | |
| 2680 | 4822 126 14585 | 100nF 10% 50V | 2840 | 4822 124 80151 | 47µF 16V | | | |
| 2681 | 5322 122 32659 | 33pF 5% 50V | 2841 | 4822 126 14585 | 100nF 10% 50V | | | |
| 2682 | 5322 122 32659 | 33pF 5% 50V | 2842 | 4822 124 80151 | 47µF 16V | | | |
| 2690 | 4822 126 14305 | 100nF 10% 16V 0603 | 2843 | 4822 126 14305 | 100nF 10% 16V 0603 | | | |
| 2704 | 4822 126 14305 | 100nF 10% 16V 0603 | 2844 | 4822 124 80151 | 47µF 16V | | | |
| 2705 | 4822 124 12095 | 100µF 20% 16V | 2845 | 4822 126 14585 | 100nF 10% 50V | | | |
| 2706 | 4822 126 14585 | 100nF 10% 50V | 2846 | 4822 124 80151 | 47µF 16V | | | |
| 2707 | 4822 124 40207 | 100µF 20% 25V | 2847 | 5322 126 10511 | 1nF 5% 50V | | | |
| 2708 | 4822 126 14585 | 100nF 10% 50V | 2848 | 4822 122 31765 | 100pF 2% 63V | | | |
| 2709 | 4822 124 21913 | 1µF 20% 63V | 2849 | 4822 126 14585 | 100nF 10% 50V | | | |
| 2710 | 4822 124 40207 | 100µF 20% 25V | 2850 | 5322 122 32531 | 100pF 5% 50V | | | |
| 2711 | 4822 126 14585 | 100nF 10% 50V | 2851 | 5322 126 10511 | 1nF 5% 50V | | | |
| 2712 | 4822 124 21913 | 1µF 20% 63V | 2852 | 5322 122 32531 | 100pF 5% 50V | | | |
| 2713 | 4822 126 14585 | 100nF 10% 50V | 2853 | 4822 124 80151 | 47µF 16V | | | |
| 2715 | 5322 122 32531 | 100pF 5% 50V | 2854 | 5322 126 10511 | 1nF 5% 50V | | | |
| 2716 | 4822 122 33575 | 220pF 5% 63V | 2855 | 4822 124 80151 | 47µF 16V | | | |
| 2717 | 5322 122 32531 | 100pF 5% 50V | 2856 | 5322 126 10511 | 1nF 5% 50V | | | |
| 2718 | 4822 122 33575 | 220pF 5% 63V | 2857 | 4822 124 80151 | 47µF 16V | | | |
| 2719 | 5322 122 32531 | 100pF 5% 50V | 2858 | 5322 126 10511 | 1nF 5% 50V | | | |
| 2720 | 4822 122 33575 | 220pF 5% 63V | 2859 | 4822 124 80151 | 47µF 16V | | | |
| 2721 | 5322 122 32531 | 100pF 5% 50V | 2860 | 4822 126 14585 | 100nF 10% 50V | | | |
| 2722 | 4822 122 33575 | 220pF 5% 63V | 2861 | 4822 124 80151 | 47µF 16V | | | |
| 2724 | 5322 122 32531 | 100pF 5% 50V | 2862 | 5322 126 10511 | 1nF 5% 50V | | | |
| 2725 | 5322 122 32531 | 100pF 5% 50V | 2863 | 4822 124 80151 | 47µF 16V | | | |
| 2726 | 4822 122 33575 | 220pF 5% 63V | 2864 | 4822 126 14585 | 100nF 10% 50V | | | |
| 2727 | 4822 126 14585 | 100nF 10% 50V | 2865 | 4822 126 14585 | 100nF 10% 50V | | | |
| 2728 | 4822 126 14305 | 100nF 10% 16V 0603 | 2866 | 4822 126 14585 | 100nF 10% 50V | | | |
| 2729 | 4822 126 14585 | 100nF 10% 50V | 2867 | 4822 124 80151 | 47µF 16V | | | |
| 2730 | 5322 122 32531 | 100pF 5% 50V | 2868 | 4822 126 14585 | 100nF 10% 50V | | | |
| 2731 | 5322 122 32531 | 100pF 5% 50V | 2869 | 4822 126 14585 | 100nF 10% 50V | | | |
| 2732 | 5322 122 32531 | 100pF 5% 50V | 2870 | 4822 124 80151 | 47µF 16V | | | |
| 2733 | 5322 122 32531 | 100pF 5% 50V | 2871 | 4822 124 80151 | 47µF 16V | | | |
| 2736 | 4822 124 40248 | 10µF 20% 63V | 2872 | 5322 122 32531 | 100pF 5% 50V | | | |
| 2737 | 4822 126 14585 | 100nF 10% 50V | 2873 | 5322 126 10511 | 1nF 5% 50V | | | |
| 2738 | 4822 124 40207 | 100µF 20% 25V | 2874 | 4822 124 80151 | 47µF 16V | | | |
| 2740 | 5322 126 11583 | 10nF 10% 50V 0603 | 2875 | 4822 126 14585 | 100nF 10% 50V | | | |
| 2741 | 5322 126 11583 | 10nF 10% 50V 0603 | 2876 | 4822 124 80151 | 47µF 16V | | | |
| 2745 | 4822 126 14494 | 22nF 10% 25V 0603 | 2877 | 5322 122 32531 | 100pF 5% 50V | | | |
| 2746 | 5322 126 11583 | 10nF 10% 50V 0603 | 2878 | 5322 126 10511 | 1nF 5% 50V | | | |
| 2747 | 5322 126 11583 | 10nF 10% 50V 0603 | 2879 | 4822 124 80151 | 47µF 16V | | | |
| 2749 | 4822 126 14494 | 22nF 10% 25V 0603 | 2880 | 5322 126 10511 | 1nF 5% 50V | | | |
| 2752 | 5322 126 11583 | 10nF 10% 50V 0603 | 2881 | 4822 124 80151 | 47µF 16V | | | |
| 2753 | 5322 126 11583 | 10nF 10% 50V 0603 | 2882 | 5322 126 10511 | 1nF 5% 50V | | | |
| 2755 | 4822 126 14494 | 22nF 10% 25V 0603 | 2883 | 5322 122 32531 | 100pF 5% 50V | | | |
| 2780 | 4822 126 14305 | 100nF 10% 16V 0603 | 2885 | 4822 122 33761 | 22pF 5% 50V | | | |
| 2781 | 4822 126 14305 | 100nF 10% 16V 0603 | 2886 | 4822 122 33761 | 22pF 5% 50V | | | |
| 2784 | 5322 122 31865 | 1.5nF 10% 63V | 2887 | 4822 122 33761 | 22pF 5% 50V | | | |
| 2785 | 5322 122 31865 | 1.5nF 10% 63V | 2888 | 4822 122 33761 | 22pF 5% 50V | | | |
| 2786 | 4822 126 11671 | 33pF | 2889 | 4822 122 33761 | 22pF 5% 50V | | | |
| 2787 | 4822 126 11671 | 33pF | 2890 | 4822 122 33761 | 22pF 5% 50V | | | |
| 2790 | 4822 122 33177 | 10nF 20% 50V | 2891 | 4822 122 33761 | 22pF 5% 50V | | | |
| 2791 | 4822 124 22652 | 2.2µF 20% 50V | 2892 | 4822 122 33761 | 22pF 5% 50V | | | |

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|------|----------------|---------------------|-------|----------------|--------------------|-------|----------------|--------------------|
| 3623 | 4822 051 30103 | 10k 5% 0.062W | 3748 | 4822 051 30392 | 3k9 5% 0.063W 0603 | 3870 | 4822 051 20101 | 100Ω 5% 0.1W |
| 3624 | 4822 051 30152 | 1k5 5% 0.062W | 3749 | 4822 051 30101 | 100Ω 5% 0.062W | 3871 | 4822 117 10833 | 10k 1% 0.1W |
| 3625 | 4822 051 30103 | 10k 5% 0.062W | 3750 | 4822 051 30271 | 270Ω 5% 0.062W | 3872 | 4822 051 20101 | 100Ω 5% 0.1W |
| 3626 | 4822 117 10837 | 100k 1% 0.1W | 3751 | 4822 051 30102 | 1k 5% 0.062W | 3873 | 4822 117 10833 | 10k 1% 0.1W |
| 3627 | 4822 117 10837 | 100k 1% 0.1W | 3752 | 4822 117 12902 | 8k2 1% 0.063W 0603 | 3874 | 4822 051 20101 | 100Ω 5% 0.1W |
| 3628 | 4822 117 10837 | 100k 1% 0.1W | 3753 | 4822 117 12902 | 8k2 1% 0.063W 0603 | 3875 | 4822 117 10833 | 10k 1% 0.1W |
| 3629 | 4822 117 10837 | 100k 1% 0.1W | 3754 | 4822 051 30392 | 3k9 5% 0.063W 0603 | 3876▲ | 4822 117 12984 | 3Ω3 5% 0.125W 1206 |
| 3630 | 4822 117 10834 | 47k 1% 0.1W | 3755 | 4822 051 30101 | 100Ω 5% 0.062W | 3877▲ | 4822 117 12984 | 3Ω3 5% 0.125W 1206 |
| 3631 | 4822 117 13632 | 100k 1% 0.603 0.62W | 3756 | 4822 051 30271 | 270Ω 5% 0.062W | 3878 | 4822 117 10837 | 100k 1% 0.1W |
| 3632 | 4822 117 12925 | 47k 1% 0.063W 0603 | 3757 | 4822 051 30102 | 1k 5% 0.062W | 3879 | 4822 051 20684 | 680k 5% 0.1W |
| 3633 | 4822 117 13632 | 100k 1% 0.603 0.62W | 3758 | 4822 051 30472 | 4k7 5% 0.062W | 3880 | 4822 117 10837 | 100k 1% 0.1W |
| 3634 | 4822 051 30563 | 56k 5% 0.062W | 3759 | 4822 051 30472 | 4k7 5% 0.062W | 3881 | 4822 051 20105 | 1M 5% 0.1W |
| 3638 | 4822 051 30102 | 1k 5% 0.062W | 3760 | 4822 051 30472 | 4k7 5% 0.062W | 3882 | 4822 051 20101 | 100Ω 5% 0.1W |
| 3639 | 4822 051 30339 | 33Ω 5% 0.062W | 3761 | 4822 117 10834 | 47k 1% 0.1W | 3883 | 4822 117 10833 | 10k 1% 0.1W |
| 3640 | 4822 051 30472 | 4k7 5% 0.062W | 3762 | 4822 051 20223 | 22k 5% 0.1W | 3884 | 4822 051 20101 | 100Ω 5% 0.1W |
| 3645 | 4822 117 11507 | 6k8 1% 0.1W | 3763 | 4822 051 20472 | 4k7 5% 0.1W | 3885 | 4822 117 10833 | 10k 1% 0.1W |
| 3646 | 4822 051 20332 | 3k3 5% 0.1W | 3764 | 4822 051 10102 | 1k 2% 0.25W | 3886 | 4822 051 30101 | 100Ω 5% 0.062W |
| 3647 | 4822 117 11507 | 6k8 1% 0.1W | 3766 | 4822 051 20561 | 560Ω 5% 0.1W | 3888 | 4822 051 30103 | 10k 5% 0.062W |
| 3648 | 4822 051 20332 | 3k3 5% 0.1W | 3769 | 4822 051 20561 | 560Ω 5% 0.1W | 3889 | 4822 051 20101 | 100Ω 5% 0.1W |
| 3649 | 4822 051 30681 | 680Ω 5% 0.062W | 3784 | 4822 051 10102 | 1k 2% 0.25W | 3890 | 4822 051 30101 | 100Ω 5% 0.062W |
| 3650 | 4822 117 11507 | 6k8 1% 0.1W | 3785 | 4822 051 10102 | 1k 2% 0.25W | 3891 | 4822 051 20472 | 4k7 5% 0.1W |
| 3651 | 4822 051 30333 | 33k 5% 0.062W | 3786 | 4822 051 30332 | 3k3 5% 0.062W | 3892 | 4822 051 30101 | 100Ω 5% 0.062W |
| 3652 | 4822 117 11507 | 6k8 1% 0.1W | 3787 | 4822 051 30682 | 6k8 5% 0.062W | 3893 | 4822 051 30101 | 100Ω 5% 0.062W |
| 3653 | 4822 117 11507 | 6k8 1% 0.1W | 3788 | 4822 051 30332 | 3k3 5% 0.062W | 3894 | 4822 051 30101 | 100Ω 5% 0.062W |
| 3658 | 4822 051 30682 | 6k8 5% 0.062W | 3789 | 4822 051 30682 | 6k8 5% 0.062W | 4xxx | 4822 051 10008 | 0Ω jumper 1206 |
| 3659 | 4822 051 30222 | 2k2 5% 0.062W | 3790 | 4822 051 20121 | 120Ω 5% 0.1W | 4xxx | 4822 051 20008 | 0Ω jumper 0805 |
| 3660 | 4822 051 30682 | 6k8 5% 0.062W | 3791 | 4822 051 30102 | 1k 5% 0.062W | 4xxx | 3198 021 90030 | 0Ω jumper 0603 |
| 3661 | 4822 051 30222 | 2k2 5% 0.062W | 3792 | 4822 051 30563 | 56k 5% 0.062W | | | |
| 3663 | 4822 051 20332 | 3k3 5% 0.1W | 3793 | 4822 051 30153 | 15k 5% 0.062W | | | |
| 3664 | 4822 051 20332 | 3k3 5% 0.1W | 3795 | 4822 051 30223 | 22k 5% 0.062W | | | |
| 3667 | 4822 117 10837 | 100k 1% 0.1W | 3796 | 4822 051 20121 | 120Ω 5% 0.1W | | | |
| 3671 | 4822 117 10833 | 10k 1% 0.1W | 3799 | 4822 051 20223 | 22k 5% 0.1W | 5704 | 4822 157 11876 | 6.8μH 10% 0805 |
| 3673 | 4822 117 10833 | 10k 1% 0.1W | 3800 | 4822 117 11927 | 75Ω 1% 0.1W | 5801 | 4822 157 71411 | 3.3μH 10% |
| 3675 | 4822 117 10837 | 100k 1% 0.1W | 3801 | 4822 117 11927 | 75Ω 1% 0.1W | | | |
| 3676 | 4822 117 10833 | 10k 1% 0.1W | 3803▲ | 4822 117 11151 | 1Ω 5% | | | |
| 3678 | 4822 117 10833 | 10k 1% 0.1W | 3804 | 4822 051 20105 | 1M 5% 0.1W | | | |
| 3679 | 4822 117 11507 | 6k8 1% 0.1W | 3805 | 4822 117 10833 | 10k 1% 0.1W | | | |
| 3680 | 4822 117 11507 | 6k8 1% 0.1W | 3807 | 4822 051 30101 | 100Ω 5% 0.062W | | | |
| 3682 | 4822 117 10837 | 100k 1% 0.1W | 3808 | 4822 051 30103 | 10k 5% 0.062W | 6525 | 4822 130 11423 | PLVA2656A |
| 3683 | 4822 051 20332 | 3k3 5% 0.1W | 3809 | 4822 051 30101 | 100Ω 5% 0.062W | 6600 | 4822 130 83757 | BAS216 |
| 3684 | 4822 117 10837 | 100k 1% 0.1W | 3810 | 4822 051 20101 | 100Ω 5% 0.1W | 6637 | 4822 130 83757 | BAS216 |
| 3685 | 4822 117 10837 | 100k 1% 0.1W | 3811 | 4822 051 30101 | 100Ω 5% 0.062W | 6638 | 4822 130 83757 | BAS216 |
| 3686 | 4822 117 10837 | 100k 1% 0.1W | 3812 | 4822 051 20101 | 100Ω 5% 0.1W | 6708 | 4822 130 11416 | PDZ6.8B |
| 3687 | 4822 051 20332 | 3k3 5% 0.1W | 3813 | 4822 051 30101 | 100Ω 5% 0.062W | 6709 | 4822 130 11416 | PDZ6.8B |
| 3688 | 4822 117 11507 | 6k8 1% 0.1W | 3814 | 4822 051 20101 | 100Ω 5% 0.1W | 6710 | 4822 130 11666 | BZX284-C8V2 |
| 3699 | 4822 117 10833 | 10k 1% 0.1W | 3815 | 4822 051 20101 | 100Ω 5% 0.1W | 6715 | 4822 130 11413 | PDZ10B |
| 3700 | 4822 117 10837 | 10k 1% 0.1W | 3816 | 4822 051 30103 | 10k 5% 0.062W | 6716 | 4822 130 11413 | PDZ10B |
| 3701 | 4822 117 13632 | 100k 1% 0.603 0.62W | 3817 | 4822 051 30103 | 10k 5% 0.062W | 6717 | 4822 130 11413 | PDZ10B |
| 3702 | 4822 051 30331 | 330Ω 5% 0.062W | 3818 | 4822 051 30103 | 10k 5% 0.062W | 6718 | 4822 130 11413 | PDZ10B |
| 3703 | 4822 051 30391 | 390Ω 5% 0.062W | 3819 | 4822 051 30103 | 10k 5% 0.062W | 6719 | 4822 130 11413 | PDZ10B |
| 3704 | 4822 051 30103 | 10k 5% 0.062W | 3820 | 4822 051 30103 | 10k 5% 0.062W | 6720 | 4822 130 11413 | PDZ10B |
| 3705 | 4822 051 30221 | 220Ω 5% 0.062W | 3821 | 4822 051 30103 | 10k 5% 0.062W | 6721 | 4822 130 11413 | PDZ10B |
| 3706 | 4822 051 30221 | 220Ω 5% 0.062W | 3822▲ | 4822 117 12984 | 3Ω3 5% 0.125W 1206 | 6722 | 4822 130 11413 | PDZ10B |
| 3707 | 4822 051 20471 | 470Ω 5% 0.1W | 3823▲ | 4822 117 12984 | 3Ω3 5% 0.125W 1206 | 6723 | 4822 130 11413 | PDZ10B |
| 3708 | 4822 051 20471 | 470Ω 5% 0.1W | 3824 | 4822 117 11148 | 56k 1% 0.1W | 6724 | 4822 130 11413 | PDZ10B |
| 3709 | 4822 051 20471 | 470Ω 5% 0.1W | 3825 | 4822 051 20334 | 330k 5% 0.1W | 6725 | 4822 130 11413 | PDZ10B |
| 3710 | 4822 117 10837 | 100k 1% 0.1W | 3826 | 4822 051 20334 | 330k 5% 0.1W | 6726 | 4822 130 11413 | PDZ10B |
| 3711 | 4822 117 10833 | 10k 1% 0.1W | 3827 | 4822 117 11927 | 75Ω 1% 0.1W | 6730 | 4822 130 11413 | PDZ10B |
| 3712 | 4822 117 10837 | 100k 1% 0.1W | 3828 | 4822 051 30562 | 5k6 5% 0.063W 0603 | 6731 | 4822 130 11413 | PDZ10B |
| 3713 | 4822 117 10833 | 10k 1% 0.1W | 3829 | 4822 051 30562 | 5k6 5% 0.063W 0603 | 6732 | 4822 130 11413 | PDZ10B |
| 3715 | 4822 051 20471 | 470Ω 5% 0.1W | 3830 | 4822 051 30123 | 12k 5% 0.062W | 6733 | 4822 130 11413 | PDZ10B |
| 3716 | 4822 051 20223 | 22k 5% 0.1W | 3831 | 4822 051 30123 | 12k 5% 0.062W | 6734 | 4822 130 11423 | PLVA2656A |
| 3717 | 4822 051 20471 | 470Ω 5% 0.1W | 3834 | 4822 051 30151 | 150Ω 5% 0.062W | 6801 | 4822 209 16978 | LF33CV |
| 3718 | 4822 051 20223 | 22k 5% 0.1W | 3835 | 4822 051 20333 | 33k 5% 0.1W | | | |
| 3719 | 4822 051 20471 | 470Ω 5% 0.1W | 3836 | 4822 117 13579 | 220k 1% 0.1W 0805 | | | |
| 3720 | 4822 051 20223 | 22k 5% 0.1W | 3837 | 4822 051 20101 | 100Ω 5% 0.1W | 7505 | 4822 209 30095 | LM833D |
| 3721 | 4822 051 20471 | 470Ω 5% 0.1W | 3838▲ | 4822 117 12984 | 3Ω3 5% 0.125W 1206 | 7510 | 4822 130 60511 | BC847B |
| 3722 | 4822 051 20223 | 22k 5% 0.1W | 3839 | 4822 051 30103 | 10k 5% 0.062W | 7512 | 4822 130 60511 | BC847B |
| 3724 | 4822 051 20223 | 22k 5% 0.1W | 3840 | 4822 051 30103 | 10k 5% 0.062W | 7540 | 9322 127 49668 | TDA7438D |
| 3725 | 4822 051 20471 | 470Ω 5% 0.1W | 3841 | 4822 051 30103 | 10k 5% 0.062W | 7541 | 4822 209 30095 | LM833D |
| 3726 | 4822 051 20223 | 22k 5% 0.1W | 3842 | 4822 051 30103 | 10k 5% 0.062W | 7543 | 4822 209 30095 | LM833D |
| 3727 | 4822 051 30103 | 10k 5% 0.062W | 3843 | 4822 051 30103 | 10k 5% 0.062W | 7544 | 4822 209 30095 | LM833D |
| 3728 | 4822 051 30333 | 33k 5% 0.062W | 3844 | 4822 117 10833 | 10k 1% 0.1W | 7565 | 4822 209 30095 | LM833D |
| 3729 | 4822 051 30683 | 68k 5% 0.062W | 3848 | 4822 051 20105 | 1M 5% 0.1W | 7570 | 9322 127 49668 | TDA7438D |
| 3730 | 4822 117 10353 | 150Ω 1% 0.1W | 3849 | 4822 051 30102 | 1k 5% 0.062W | 7595 | 4822 209 30095 | LM833D |
| 3731 | 4822 051 20223 | 22k 5% 0.1W | 3850 | 4822 117 10833 | 10k 1% 0.1W | 7600 | 9322 127 49668 | TDA7438D |
| 3732 | 4822 117 10353 | 150Ω 1% 0.1W | 3851▲ | 4822 117 12984 | 3Ω3 5% 0.125W 1206 | 7601 | 4822 130 60511 | BC847B |
| 3733 | 4822 051 20223 | 22k 5% 0.1W | 3852▲ | 4822 117 13572 | 22Ω 5% 1206 | 7602 | 4822 130 60511 | BC847B |
| 3734 | 4822 117 11503 | 220Ω 1% 0.1W | 3854 | 4822 117 10833 | 10k 1% 0.1W | 7603 | 4822 130 60511 | BC847B |
| 3735 | 4822 117 11503 | 220Ω 1% 0.1W | 3855▲ | 4822 117 12984 | 3Ω3 5% 0.125W 1206 | 7604 | 4822 130 60373 | BC856B |
| 3737 | 4822 051 30683 | 68k 5% 0.062W | 3856▲ | 4822 117 13572 | 22Ω 5% 1206 | 7605 | 4822 130 60511 | BC847B |
| 3738 | 4822 051 20471 | 470Ω 5% 0.1W | 3857 | 4822 051 20101 | 100Ω 5% 0.1W | 7610 | 4822 130 60511 | BC847B |
| 3739 | 4822 051 20471 | 470Ω 5% 0.1W | 3858 | 4822 051 30103 | 10k 5% 0.062W | 7611 | 4822 130 60511 | BC847B |
| 3740 | 4822 117 12902 | 8k2 1% 0.063W 0603 | 3859 | 4822 051 30103 | 10k 5% 0.062W | 7625 | 4822 209 30095 | LM833D |
| 3741 | 4822 117 12902 | 8k2 1% 0.063W 0603 | 3861 | 4822 117 10833 | 10k 1% 0.1W | 7630 | 5322 209 11102 | HEF4052BT |
| 3742 | 4822 051 30392 | 3k9 5% 0.063W 0603 | 3863 | 4822 117 10833 | 10k 1% 0.1W | 7635 | 4822 209 30095 | LM833D |
| 3743 | 4822 051 30101 | 100Ω 5% 0.062W | 3864 | 4822 051 20101 | 100Ω 5% 0.1W | 7665 | 5322 209 11102 | HEF4052BT |
| 3744 | 4822 051 30271 | 270Ω 5% 0.062W | 3865 | 4822 051 30103 | 10k 5% 0.062W | 7667 | 4822 130 60511 | BC847B |
| 3745 | 4822 051 30102 | 1k 5% 0.062W | 3866 | 4822 117 10833 | 10k 1% 0.1W | 7675 | 4822 130 60511 | BC847B |
| 3746 | 4822 117 12902 | 8k2 1% 0.063W 0603 | 3868 | 4822 051 20101 | 100Ω 5% 0.1W | 7679 | 4822 209 30095 | LM833D |
| 3747 | 4822 117 12902 | 8k2 1% 0.063W 0603 | 3869 | 4822 117 10833 | 10k 1% 0.1W | 7685 | 5322 209 11102 | HEF4052BT |

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|------|----------------|---------------------|
| 7690 | 4822 209 13252 | PCF8574TS/F3 |
| 7695 | 5322 209 11102 | HEF4052BT |
| 7696 | 4822 130 60511 | BC847B |
| 7705 | 5322 209 81856 | LM7912CT |
| 7706 | 4822 209 81726 | MC7812CT |
| 7707 | 4822 130 60511 | BC847B |
| 7708 | 4822 130 60511 | BC847B |
| 7709 | 4822 130 60511 | BC847B |
| 7710 | 4822 130 60511 | BC847B |
| 7712 | 4822 130 60511 | BC847B |
| 7740 | 4822 209 30095 | LM833D |
| 7780 | 4822 209 30095 | LM833D |
| 7781 | 4822 130 60373 | BC856B |
| 7800 | 9351 705 10118 | 74LVT125D |
| 7801 | 9352 629 51557 | SAA2505H/M1 |
| 7802 | 4822 209 14863 | LC8904Q |
| 7803 | 3104 317 02021 | Software V12 |
| 7804 | 4822 209 30095 | LM833D |
| 7805 | 4822 209 17423 | JAD1328T |
| 7806 | 9352 617 90118 | UDA1344TS 7806 7806 |
| 7807 | 4822 130 60511 | BC847B |

Side I/O panel [O]

Various

| | | |
|------|----------------|------------------------|
| 0044 | 4822 402 11175 | Bracket side I/O |
| 0326 | 4822 267 10975 | Socket 3 x cinch |
| 0327 | 4822 267 31014 | Socket headphone 3.5mm |
| 0328 | 4822 265 11337 | Socket SVHS |
| 0333 | 4822 267 10962 | 11P male v |
| 0344 | 4822 267 10963 | 3P |
| 0346 | 4822 267 10967 | 3P male black |
| 1047 | 3104 328 01391 | Side I/O panel |
| 8333 | 4822 320 12505 | Cable 11P 820mm |
| 8344 | 4822 320 12509 | Cable 3P 820mm |

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|------|----------------|------------------|
| 2804 | 5322 122 32531 | 100pF 5% 50V |
| 2805 | 5322 122 32531 | 100pF 5% 50V |
| 2807 | 4822 126 14076 | 220nF 80-20% 25V |
| 2810 | 4822 126 12105 | 33nF 5% 50V |
| 2811 | 4822 124 40207 | 100µF 20% 25V |
| 2813 | 4822 124 22652 | 2.2µF 20% 50V |
| 2832 | 4822 122 33177 | 10nF 20% 50V |
| 2834 | 4822 122 33177 | 10nF 20% 50V |

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|------|----------------|------------------|
| 3801 | 4822 116 52201 | 75Ω 5% 0.5W |
| 3803 | 4822 050 11002 | 1k 1% 0.4W |
| 3804 | 4822 050 11002 | 1k 1% 0.4W |
| 3808 | 4822 051 20008 | 0Ω jumper 0805 |
| 3809 | 4822 051 20008 | 0Ω jumper 0805 |
| 3810 | 4822 051 20684 | 680k 5% 0.1W |
| 3811 | 4822 051 20393 | 39k 5% 0.1W |
| 3812 | 4822 051 20154 | 150k 5% 0.1W |
| 3813 | 4822 051 20392 | 3k9 5% 0.1W |
| 3814 | 4822 117 11449 | 2k2 1% 0.1W |
| 3815 | 4822 051 20399 | 39Ω 5% 0.1W |
| 3816 | 4822 051 20399 | 39Ω 5% 0.1W |
| 3826 | 4822 116 52206 | 120Ω 5% 0.5W |
| 3827 | 4822 116 52206 | 120Ω 5% 0.5W |
| 3828 | 4822 116 52206 | 120Ω 5% 0.5W |
| 3829 | 4822 116 52206 | 120Ω 5% 0.5W |
| 3830 | 4822 050 21003 | 10k 1% 0.6W |
| 3842 | 4822 050 21003 | 10k 1% 0.6W |
| 3845 | 4822 116 52283 | 4k7 5% 0.5W |
| 3846 | 4822 050 21003 | 10k 1% 0.6W |
| 3847 | 4822 117 10833 | 10k 1% 0.1W |
| 3848 | 4822 051 20562 | 5k6 5% 0.1W 0805 |
| 3849 | 4822 051 20332 | 3k3 5% 0.1W |
| 3999 | 4822 117 11448 | 180Ω 1% 0.1W |

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| 5800 | 4822 157 11228 | 100µH 5% |
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| 6801 | 4822 130 11416 | PDZ6.8B |
| 6802 | 4822 130 11416 | PDZ6.8B |
| 6803 | 4822 130 11413 | PDZ10B |
| 6804 | 4822 130 11413 | PDZ10B |
| 6805 | 4822 130 11413 | PDZ10B |

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|------|----------------|---------|
| 6806 | 4822 130 11413 | PDZ10B |
| 6807 | 4822 130 11416 | PDZ6.8B |
| 6808 | 4822 130 11416 | PDZ6.8B |



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|------|----------------|--------|
| 7811 | 4822 130 60373 | BC856B |
| 7812 | 4822 130 60373 | BC856B |
| 7813 | 4822 130 60511 | BC847B |

Top control panel [P]

Various

| | | |
|------|----------------|--------------------|
| 0052 | 3104 304 19794 | Top control frame |
| 0053 | 3104 304 20921 | Top control keypad |
| 0345 | 4822 267 10748 | 3P male |
| 1049 | 3104 328 00160 | Top control panel |
| 1701 | 4822 276 13775 | Tact switch |
| 1702 | 4822 276 13775 | Tact switch |
| 1703 | 4822 276 13775 | Tact switch |
| 1704 | 4822 276 13775 | Tact switch |
| 1705 | 4822 276 13775 | Tact switch |



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|------|----------------|---------------------|
| 3701 | 4822 051 20391 | 390Ω 5% 0.1W |
| 3702 | 4822 117 13528 | 200Ω 1% 0.125W 0805 |
| 3703 | 4822 117 10845 | 620Ω 1% 0.1W |
| 3704 | 4822 117 11534 | 1k1 1% 0.1W |
| 3705 | 4822 117 11951 | 2k 1% 0.1W |

Wireless transmitter [R]

Various

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|------|----------------|--------------------|
| 0320 | 4304 078 87600 | Transmitter 864MHz |
| 0320 | 4304 078 87610 | Transmitter 433MHz |
| 1102 | 3104 217 06120 | 864MHz modulator |
| 1102 | 4822 218 11567 | 433MHz modulator |

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|------|----------------|------------------|
| 2100 | 4822 126 14043 | 1µF 20% 16V |
| 2101 | 4822 126 14043 | 1µF 20% 16V |
| 2102 | 4822 126 13222 | 390pF 2% 63V |
| 2103 | 4822 126 13222 | 390pF 2% 63V |
| 2104 | 4822 126 13222 | 390pF 2% 63V |
| 2105 | 4822 126 13222 | 390pF 2% 63V |
| 2106 | 4822 126 13222 | 390pF 2% 63V |
| 2107 | 4822 126 13222 | 390pF 2% 63V |
| 2108 | 4822 126 13222 | 390pF 2% 63V |
| 2109 | 4822 126 13222 | 390pF 2% 63V |
| 2110 | 4822 126 10326 | 180pF 5% 63V |
| 2111 | 4822 126 10326 | 180pF 5% 63V |
| 2112 | 4822 126 10326 | 180pF 5% 63V |
| 2113 | 4822 126 10326 | 180pF 5% 63V |
| 2114 | 4822 124 22652 | 2.2µF 20% 50V |
| 2115 | 4822 124 22652 | 2.2µF 20% 50V |
| 2116 | 5322 122 32268 | 470pF 10% 50V |
| 2117 | 5322 122 32268 | 470pF 10% 50V |
| 2118 | 5322 126 10223 | 4.7nF 10% 63V |
| 2119 | 5322 126 10223 | 4.7nF 10% 63V |
| 2120 | 4822 124 40248 | 10µF 20% 63V |
| 2121 | 4822 124 40248 | 10µF 20% 63V |
| 2122 | 4822 121 51319 | 1µF 10% 63V |
| 2123 | 4822 121 51319 | 1µF 10% 63V |
| 2124 | 4822 124 22652 | 2.2µF 20% 50V |
| 2125 | 4822 124 22652 | 2.2µF 20% 50V |
| 2126 | 5322 122 32654 | 22nF 10% 63V |
| 2127 | 5322 122 32654 | 22nF 10% 63V |
| 2128 | 4822 124 22652 | 2.2µF 20% 50V |
| 2129 | 4822 124 22652 | 2.2µF 20% 50V |
| 2130 | 4822 124 22652 | 2.2µF 20% 50V |
| 2131 | 4822 124 22652 | 2.2µF 20% 50V |
| 2132 | 4822 126 13692 | 47pF 1% 63V |
| 2133 | 4822 126 13692 | 47pF 1% 63V |
| 2134 | 4822 124 40248 | 10µF 20% 63V |
| 2135 | 4822 124 40248 | 10µF 20% 63V |
| 2136 | 5322 122 32268 | 470pF 10% 50V |
| 2137 | 4822 124 81151 | 22µF 50V |
| 2138 | 5322 122 31647 | 1nF 10% 63V |
| 2139 | 5322 122 32268 | 470pF 10% 50V |
| 2141 | 4822 126 13482 | 470nF 80/20% 16V |

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|------|----------------|------------------|
| 2142 | 4822 124 81151 | 22µF 50V |
| 2143 | 4822 122 32535 | 680pF 10% 63V |
| 2144 | 4822 126 13695 | 82pF 1% 63V |
| 2147 | 5322 122 32654 | 22nF 10% 63V |
| 2150 | 4822 126 13473 | 220nF 80-20% 50V |
| 2151 | 4822 126 13692 | 47pF 1% 63V |
| 2152 | 4822 126 13692 | 47pF 1% 63V |
| 2153 | 4822 126 14585 | 100nF 10% 50V |
| 2154 | 4822 126 14585 | 100nF 10% 50V |
| 2155 | 4822 126 14585 | 100nF 10% 50V |
| 2156 | 4822 124 40196 | 220µF 20% 16V |
| 2157 | 4822 124 40196 | 220µF 20% 16V |
| 2158 | 4822 124 40207 | 100µF 20% 25V |
| 2162 | 5322 122 32654 | 22nF 10% 63V |
| 2163 | 4822 126 13473 | 220nF 80-20% 50V |
| 2164 | 4822 126 14585 | 100nF 10% 50V |
| 2165 | 4822 126 14585 | 100nF 10% 50V |
| 2166 | 5322 122 32654 | 22nF 10% 63V |
| 2167 | 5322 122 32448 | 10pF 5% 63V |
| 2168 | 4822 126 13482 | 470nF 80/20% 16V |
| 2169 | 4822 122 32535 | 680pF 10% 63V |
| 2170 | 4822 122 32535 | 680pF 10% 63V |
| 2173 | 4822 122 33177 | 10nF 20% 50V |
| 2174 | 4822 126 13473 | 220nF 80-20% 50V |
| 2175 | 4822 122 33575 | 220pF 5% 63V |
| 2176 | 4822 122 33575 | 220pF 5% 63V |
| 2178 | 5322 122 32654 | 22nF 10% 63V |
| 2179 | 5322 122 32654 | 22nF 10% 63V |
| 2180 | 5322 122 32654 | 22nF 10% 63V |
| 2181 | 4822 126 13692 | 47pF 1% 63V |
| 2182 | 4822 126 13692 | 47pF 1% 63V |
| 2183 | 5322 122 32654 | 22nF 10% 63V |
| 2185 | 4822 126 13692 | 47pF 1% 63V |
| 2186 | 4822 126 13473 | 220nF 80-20% 50V |
| 2188 | 4822 126 13692 | 47pF 1% 63V |
| 2189 | 5322 122 31863 | 330pF 5% 63V |



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|------|----------------|--------------|
| 3100 | 4822 117 10837 | 100k 1% 0.1W |
| 3101 | 4822 117 10837 | 100k 1% 0.1W |
| 3102 | 4822 051 20392 | 3k9 5% 0.1W |
| 3103 | 4822 051 20392 | 3k9 5% 0.1W |
| 3104 | 4822 050 21303 | 13k 1% 0.6W |
| 3105 | 4822 050 21303 | 13k 1% 0.6W |
| 3106 | 4822 050 21303 | 13k 1% 0.6W |
| 3107 | 4822 050 21303 | 13k 1% 0.6W |
| 3108 | 4822 050 26492 | 6k49 1% 0.6W |
| 3109 | 4822 050 26492 | 6k49 1% 0.6W |
| 3110 | 4822 051 20184 | 180k 5% 0.1W |
| 3111 | 4822 051 20184 | 180k 5% 0.1W |
| 3112 | 4822 051 20223 | 22k 5% 0.1W |
| 3113 | 4822 051 20223 | 22k 5% 0.1W |
| 3114 | 4822 050 23303 | 33k 1% 0.6W |
| 3115 | 4822 051 20333 | 33k 5% 0.1W |
| 3116 | 4822 051 20333 | 33k 5% 0.1W |
| 3117 | 4822 051 20333 | 33k 5% 0.1W |
| 3118 | 4822 051 20273 | 27k 5% 0.1W |
| 3119 | 4822 051 20273 | 27k 5% 0.1W |
| 3120 | 4822 051 20273 | 27k 5% 0.1W |
| 3121 | 4822 051 20273 | 27k 5% 0.1W |
| 3122 | 4822 117 10834 | 47k 1% 0.1W |
| 3123 | 4822 117 10834 | 47k 1% 0.1W |
| 3124 | 4822 116 83933 | 15k 1% 0.1W |
| 3125 | 4822 116 83933 | 15k 1% 0.1W |
| 3126 | 4822 051 10102 | 1k 2% 0.25W |
| 3127 | 4822 051 10102 | 1k 2% 0.25W |
| 3128 | 4822 051 20332 | 3k3 5% 0.1W |
| 3129 | 4822 051 20332 | 3k3 5% 0.1W |
| 3130 | 4822 117 10833 | 10k 1% 0.1W |
| 3131 | 4822 117 10833 | 10k 1% 0.1W |
| 3132 | 4822 051 20683 | 68k 5% 0.1W |
| 3133 | 4822 051 20683 | 68k 5% 0.1W |
| 3134 | 4822 117 10965 | 18k 1% 0.1W |
| 3135 | 4822 117 10965 | 18k 1% 0.1W |
| 3136 | 4822 117 10965 | 18k 1% 0.1W |
| 3137 | 4822 117 10965 | 18k 1% 0.1W |
| 3138 | 4822 117 11507 | 6k8 1% 0.1W |
| 3139 | 4822 117 11507 | 6k8 1% 0.1W |
| 3140 | 4822 051 10102 | 1k 2% 0.25W |
| 3141 | 4822 051 10102 | 1k 2% 0.25W |
| 3142 | 4822 051 20474 | 470k 5% 0.1W |
| 3143 | 4822 117 10837 | 100k 1% 0.1W |
| 3144 | 4822 051 20333 | 33k 5% 0.1W |
| 3145 | 4822 116 83933 | 15k 1% 0.1W |
| 3150 | 4822 051 20333 | 33k 5% 0.1W |
| 3151 | 4822 116 83933 | 15k 1% 0.1W |
| 3152 | 4822 116 83933 | 15k 1% 0.1W |
| 3153 | 4822 051 20333 | 33k 5% 0.1W |
| 3154 | 4822 051 20822 | 8k2 5% 0.1W |

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| 3155 | 4822 051 20392 | 3k9 5% 0.1W |
| 3156 | 4822 051 20822 | 8k2 5% 0.1W |
| 3157 | 4822 100 11676 | 10k 30%LIN 0.2W |
| 3158 | 4822 051 20471 | 470Ω 5% 0.1W |
| 3159 | 4822 051 20471 | 470Ω 5% 0.1W |
| 3160 | 4822 116 52175 | 100Ω 5% 0.5W |
| 3161 | 4822 116 52175 | 100Ω 5% 0.5W |
| 3162 | 4822 051 20008 | 0Ω jumper 0805 |
| 3165 | 4822 051 20008 | 0Ω jumper 0805 |
| 3168 | 4822 051 20332 | 3k3 5% 0.1W |
| 3169 | 4822 117 10834 | 47k 1% 0.1W |
| 3170 | 4822 051 20472 | 4k7 5% 0.1W |
| 3171 | 4822 051 20391 | 390Ω 5% 0.1W |
| 3172 | 4822 051 10102 | 1k 2% 0.25W |
| 3175 | 4822 117 10837 | 100k 1% 0.1W |
| 3176 | 4822 051 10102 | 1k 2% 0.25W |
| 3177 | 4822 051 20223 | 22k 5% 0.1W |
| 3180 | 4822 117 13579 | 220k 1% 0.1W 0805 |
| 3181 | 4822 117 13579 | 220k 1% 0.1W 0805 |
| 3182 | 4822 051 20474 | 470k 5% 0.1W |
| 3184 | 4822 051 10102 | 1k 2% 0.25W |
| 3185 | 4822 117 10833 | 10k 1% 0.1W |
| 3188 | 4822 051 20472 | 4k7 5% 0.1W |
| 3189 | 4822 117 10837 | 100k 1% 0.1W |
| 3190 | 4822 051 20472 | 4k7 5% 0.1W |
| 3191 | 4822 051 20223 | 22k 5% 0.1W |
| 3193 | 4822 117 10834 | 47k 1% 0.1W |
| 3194 | 4822 051 20008 | 0Ω jumper 0805 |
| 3196 | 4822 051 20472 | 4k7 5% 0.1W |
| 3197 | 4822 051 20472 | 4k7 5% 0.1W |
| 3198 | 4822 051 20008 | 0Ω jumper 0805 |
| 3199 | 4822 051 20561 | 560Ω 5% 0.1W |
| 3199 | 4822 051 20562 | 5k6 5% 0.1W 0805 |
| 3200 | 4822 051 20472 | 4k7 5% 0.1W |
| 3201 | 4822 051 20471 | 470Ω 5% 0.1W |
| 3202 | 4822 051 20471 | 470Ω 5% 0.1W |
| 3203 | 4822 051 10102 | 1k 2% 0.25W |
| 3204 | 4822 051 10102 | 1k 2% 0.25W |
| 3205 | 4822 051 10102 | 1k 2% 0.25W |
| 3206 | 4822 051 20471 | 470Ω 5% 0.1W |
| 3207 | 4822 117 10833 | 10k 1% 0.1W |
| 4xxx | 4822 051 10008 | 0Ω jumper 1206 |
| 4xxx | 4822 051 20008 | 0Ω jumper 0805 |

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|------|----------------|------------------|
| 5101 | 2422 543 01048 | Crystal 12.8MHz |
| 5102 | 2422 535 94915 | 33nH 5% 0805 |
| 5105 | 2422 535 94828 | 27nH 5% 0805 |
| 5107 | 4822 157 71206 | Bead 100MHz 600Ω |

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|------|----------------|-----------|
| 6101 | 4822 130 34121 | BAX18 |
| 6102 | 4822 130 61219 | BZX79-B10 |
| 6106 | 4822 130 11423 | PLVA2656A |
| 6107 | 4822 130 83757 | BAS216 |

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|------|----------------|-----------------|
| 7101 | 9322 137 78682 | NJM2060D |
| 7102 | 9338 436 90602 | SA572N |
| 7103 | 4822 209 70157 | NJM4560DD |
| 7105 | 3104 218 80310 | μP S83C751-4N24 |
| 7106 | 4822 209 17338 | L78L08ACZ |
| 7108 | 4822 130 60373 | BC856B |
| 7109 | 4822 209 83357 | NJM4560M |
| 7110 | 4822 130 60511 | BC847B |
| 7112 | 9337 140 10653 | 74HC4060D |
| 7113 | 4822 209 60792 | 74HC4053D |
| 7114 | 4822 130 60511 | BC847B |
| 7115 | 4822 209 83357 | NJM4560M |
| 7116 | 4822 130 60511 | BC847B |
| 7117 | 4822 130 60373 | BC856B |
| 7118 | 4822 130 60511 | BC847B |
| 7119 | 4822 130 60511 | BC847B |

Wireless receiver [U]

Various

| | | |
|------|----------------|----------------------|
| 0438 | 3104 217 06050 | Receiver 864MHz |
| 0438 | 3104 217 06200 | Receiver 433MHz |
| 1701 | 4822 277 11671 | Slide switch 1P 7pos |
| 1710 | 3104 217 06260 | Frontend 864MHz |
| 1710 | 4822 218 11568 | Frontend 433MHz |

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|------|----------------|------------------|
| 2701 | 5322 122 32654 | 22nF 10% 63V |
| 2702 | 5322 122 32654 | 22nF 10% 63V |
| 2703 | 4822 126 13751 | 47nF 10% 63V |
| 2704 | 4822 126 13473 | 220nF 80-20% 50V |
| 2705 | 4822 126 14585 | 100nF 10% 50V |
| 2706 | 5322 122 32654 | 22nF 10% 63V |
| 2707 | 4822 126 14585 | 100nF 10% 50V |
| 2708 | 4822 124 40769 | 4.7μF 20% 100V |
| 2709 | 5322 122 32531 | 100pF 5% 50V |
| 2710 | 4822 126 13473 | 220nF 80-20% 50V |
| 2711 | 4822 121 41854 | 150nF 5% 63V |
| 2712 | 4822 126 13188 | 15nF 5% 63V |
| 2713 | 2222 464 90014 | 180pF 2% 630V |
| 2714 | 4822 124 41751 | 47μF 20% 50V |
| 2715 | 4822 124 40769 | 4.7μF 20% 100V |
| 2716 | 4822 126 13473 | 220nF 80-20% 50V |
| 2717 | 5322 122 32654 | 22nF 10% 63V |
| 2718 | 4822 126 13473 | 220nF 80-20% 50V |
| 2719 | 4822 122 33216 | 270pF 5% 50V |
| 2720 | 4822 122 33216 | 270pF 5% 50V |
| 2721 | 4822 126 13473 | 220nF 80-20% 50V |
| 2722 | 4822 126 14585 | 100nF 10% 50V |
| 2723 | 4822 124 22652 | 2.2μF 20% 50V |
| 2731 | 4822 124 22652 | 2.2μF 20% 50V |
| 2741 | 4822 124 22652 | 2.2μF 20% 50V |
| 2750 | 4822 126 13473 | 220nF 80-20% 50V |
| 2751 | 5322 122 32531 | 100pF 5% 50V |
| 2752 | 4822 126 13473 | 220nF 80-20% 50V |
| 2753 | 5322 122 32654 | 22nF 10% 63V |
| 2754 | 4822 124 40769 | 4.7μF 20% 100V |
| 2755 | 5322 122 32654 | 22nF 10% 63V |
| 2762 | 4822 126 13692 | 47pF 1% 63V |
| 2770 | 4822 124 40769 | 4.7μF 20% 100V |
| 2771 | 5322 122 32654 | 22nF 10% 63V |
| 2772 | 4822 124 22652 | 2.2μF 20% 50V |
| 2773 | 4822 124 22652 | 2.2μF 20% 50V |
| 2774 | 4822 121 51319 | 1μF 10% 63V |
| 2775 | 5322 122 32654 | 22nF 10% 63V |
| 2776 | 4822 124 22652 | 2.2μF 20% 50V |
| 2777 | 4822 124 22652 | 2.2μF 20% 50V |
| 2778 | 4822 121 51319 | 1μF 10% 63V |
| 2779 | 5322 122 32654 | 22nF 10% 63V |
| 2780 | 4822 124 40248 | 10μF 20% 63V |
| 2781 | 4822 124 40769 | 4.7μF 20% 100V |
| 2782 | 5322 126 10223 | 4.7nF 10% 63V |
| 2783 | 4822 124 22652 | 2.2μF 20% 50V |
| 2786 | 4822 124 40248 | 10μF 20% 63V |
| 2787 | 4822 124 40769 | 4.7μF 20% 100V |
| 2788 | 5322 126 10223 | 4.7nF 10% 63V |
| 2789 | 4822 124 22652 | 2.2μF 20% 50V |
| 2790 | 4822 126 14585 | 100nF 10% 50V |
| 2792 | 4822 122 33575 | 220pF 5% 63V |
| 2793 | 4822 122 33575 | 220pF 5% 63V |
| 2794 | 4822 122 33575 | 220pF 5% 63V |

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| 3701 | 4822 051 20471 | 470Ω 5% 0.1W |
| 3702 | 4822 117 13577 | 330Ω 1% 0805 1.25W |
| 3703 | 4822 117 11449 | 2k2 1% 0.1W |
| 3704 | 4822 051 20471 | 470Ω 5% 0.1W |
| 3705 | 4822 051 20101 | 100Ω 5% 0.1W |
| 3706 | 4822 051 20332 | 3k3 5% 0.1W |
| 3707 | 4822 117 13577 | 330Ω 1% 0805 1.25W |
| 3708 | 4822 051 20478 | 4k7 5% 0.1W |
| 3709 | 4822 117 11448 | 180Ω 1% 0.1W |
| 3710 | 4822 051 20391 | 390Ω 5% 0.1W |
| 3711 | 4822 100 12159 | 100k 30% |
| 3712 | 4822 117 10833 | 10k 1% 0.1W |
| 3713 | 4822 117 10833 | 10k 1% 0.1W |
| 3714 | 4822 051 20223 | 22k 5% 0.1W |
| 3715 | 4822 117 11148 | 56k 1% 0.1W |
| 3716 | 4822 051 20332 | 3k3 5% 0.1W |
| 3717 | 4822 116 52264 | 27k 5% 0.5W |
| 3718 | 4822 116 52264 | 27k 5% 0.5W |
| 3719 | 4822 117 10837 | 100k 1% 0.1W |
| 3720 | 4822 117 10837 | 100k 1% 0.1W |
| 3721 | 4822 051 20273 | 27k 5% 0.1W |
| 3722 | 4822 051 20472 | 4k7 5% 0.1W |
| 3723 | 4822 051 20273 | 27k 5% 0.1W |
| 3723 | 4822 117 10965 | 18k 1% 0.1W |
| 3724 | 4822 051 20393 | 39k 5% 0.1W |
| 3724 | 4822 117 10837 | 100k 1% 0.1W |
| 3726 | 4822 117 11449 | 2k2 1% 0.1W |
| 3727 | 4822 051 20562 | 5k6 5% 0.1W 0805 |
| 3728 | 4822 051 20562 | 5k6 5% 0.1W 0805 |
| 3729 | 4822 051 20474 | 470k 5% 0.1W |

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|------|----------------|------------------|
| 3730 | 4822 051 20223 | 22k 5% 0.1W |
| 3731 | 4822 051 20683 | 68k 5% 0.1W |
| 3732 | 4822 051 20562 | 5k6 5% 0.1W 0805 |
| 3733 | 4822 051 20392 | 3k9 5% 0.1W |
| 3734 | 4822 051 20561 | 560Ω 5% 0.1W |
| 3735 | 4822 051 20391 | 390Ω 5% 0.1W |
| 3736 | 2120 363 90145 | 22K 30% LIN |
| 3737 | 4822 051 20472 | 4k7 5% 0.1W |
| 3738 | 4822 051 20472 | 4k7 5% 0.1W |
| 3739 | 4822 117 11449 | 2k2 1% 0.1W |
| 3740 | 4822 051 20223 | 22k 5% 0.1W |
| 3741 | 4822 117 11449 | 2k2 1% 0.1W |
| 3742 | 4822 051 20562 | 5k6 5% 0.1W 0805 |
| 3743 | 4822 051 20392 | 3k9 5% 0.1W |
| 3744 | 4822 051 20561 | 560Ω 5% 0.1W |
| 3745 | 4822 051 20391 | 390Ω 5% 0.1W |
| 3746 | 4822 051 20472 | 4k7 5% 0.1W |
| 3747 | 4822 051 20101 | 100Ω 5% 0.1W |
| 3748 | 4822 117 11449 | 2k2 1% 0.1W |
| 3749 | 4822 117 11449 | 2k2 1% 0.1W |
| 3750 | 4822 051 10102 | 1k 2% 0.25W |
| 3751 | 4822 051 20472 | 4k7 5% 0.1W |
| 3752 | 4822 051 20101 | 100Ω 5% 0.1W |
| 3753 | 4822 117 10833 | 10k 1% 0.1W |
| 3754 | 4822 117 10837 | 100k 1% 0.1W |
| 3755 | 4822 117 10833 | 10k 1% 0.1W |
| 3756 | 4822 117 10833 | 10k 1% 0.1W |
| 3757 | 4822 117 10833 | 10k 1% 0.1W |
| 3758 | 4822 117 10834 | 47k 1% 0.1W |
| 3759 | 4822 117 10834 | 47k 1% 0.1W |
| 3760 | 4822 051 20472 | 4k7 5% 0.1W |
| 3761 | 4822 051 20101 | 100Ω 5% 0.1W |
| 3762 | 4822 117 10833 | 10k 1% 0.1W |
| 3763 | 4822 117 10833 | 10k 1% 0.1W |
| 3771 | 4822 117 10833 | 10k 1% 0.1W |
| 3772 | 4822 051 20332 | 3k3 5% 0.1W |
| 3775 | 4822 117 10833 | 10k 1% 0.1W |
| 3776 | 4822 051 20332 | 3k3 5% 0.1W |
| 3778 | 4822 051 10102 | 1k 2% 0.25W |
| 3779 | 4822 051 10102 | 1k 2% 0.25W |
| 3780 | 4822 117 10837 | 100k 1% 0.1W |
| 3781 | 4822 117 10965 | 18k 1% 0.1W |
| 3782 | 4822 117 10834 | 47k 1% 0.1W |
| 3783 | 4822 117 11449 | 2k2 1% 0.1W |
| 3786 | 4822 117 10837 | 100k 1% 0.1W |
| 3787 | 4822 117 10965 | 18k 1% 0.1W |
| 3788 | 4822 117 10834 | 47k 1% 0.1W |
| 3789 | 4822 117 11449 | 2k2 1% 0.1W |
| 3792 | 4822 117 10837 | 100k 1% 0.1W |
| 3793 | 4822 117 10837 | 100k 1% 0.1W |
| 3794 | 4822 051 20472 | 4k7 5% 0.1W |
| 3795 | 4822 117 10833 | 10k 1% 0.1W |
| 3796 | 4822 051 20561 | 560Ω 5% 0.1W |
| 3796 | 4822 051 20562 | 5k6 5% 0.1W 0805 |
| 4xxx | 4822 051 10008 | 0Ω jumper 1206 |
| 4xxx | 4822 051 20008 | 0Ω jumper 0805 |

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|------|----------------|---------------------|
| 5701 | 2422 549 43868 | Coil var. 10.7MHz |
| 5702 | 4822 157 11668 | Filter MPX 20KHZ |
| 5703 | 4822 157 11668 | Filter MPX 20KHZ |
| 5704 | 4822 242 72527 | Crystal 4.00MHz |
| 5705 | 4822 157 71206 | Bead 100MHz 600Ω |
| 5706 | 4822 242 70665 | Filter SFE10.7MS3-A |
| 5707 | 4822 242 70665 | Filter SFE10.7MS3-A |
| 5708 | 4822 157 11172 | 68nH 10% 0805 |

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|------|----------------|------------|
| 6701 | 5322 130 34331 | BAV70 |
| 6702 | 4822 130 34233 | BZX79-B5V1 |
| 6703 | 4822 130 83757 | BAS216 |
| 6704 | 4822 130 30621 | 1N4148 |
| 6705 | 4822 130 30621 | 1N4148 |

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| 7702 | 9350 394 00112 | TDA1578A/V6 |
| 7703 | 4822 130 60373 | BC856B |
| 7704 | 4822 130 60511 | BC847B |
| 7705 | 4822 130 60511 | BC847B |
| 7706 | 4822 130 60511 | BC847B |
| 7707 | 5322 130 42718 | BFS20 |
| 7708 | 3104 218 80290 | μProcessor |
| 7709 | 9338 436 90602 | SA572N |
| 7710 | 4822 209 70157 | NJM4560DD |
| 7711 | 4822 209 17338 | L78L08ACZ |
| 7712 | 4822 130 41327 | BC327-40 |

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| 7713 | 4822 130 60511 | BC847B |
| 7714 | 4822 209 15263 | L78L06ACZ |
| 7717 | 4822 130 60511 | BC847B |
| 7718 | 4822 130 60373 | BC856B |
| 7719 | 4822 130 60511 | BC847B |
| 7720 | 4822 130 60511 | BC847B |

Surround sound supply+amplifier [W1] [W2] [W3] [W4]

Various

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|------|----------------|-----------------------------------|
| 0011 | 4303 308 76220 | HOLDER LED DIST.ELB LU53-080 |
| 0012 | 9390 288 60112 | Spring clip SOT93 |
| 0013 | 4822 413 31586 | Power button |
| 1101 | 4822 267 10748 | S3B-EH (3P) |
| 1201 | 2422 025 14044 | CON BMT B6P-VH |
| 1202 | 4822 265 30734 | 4 PINS |
| 1203 | 4303 308 99380 | CON BMT B2P(3-2)-VH |
| 1204 | 4822 276 13224 | Mains switch |
| 1205 | 4822 265 11253 | Fuse holder |
| 1206 | 4822 070 32002 | Fuse 2A |
| 1301 | 2422 025 04849 | CON BMT 2P |
| 1302 | 4822 265 10872 | YKD21-0178 |
| 1303 | 4822 265 30735 | 5P |
| 1304 | 4822 267 10735 | B3B-EH-A |
| 1305 | 4822 265 41392 | B7B-EH-A |
| 1306 | 4822 267 31014 | Socket headphone |
| 1307 | 4303 308 94460 | Slide switch 2P |
| 1401 | 4822 265 30735 | 5P |
| 1402 | 4822 267 10735 | B3B-EH-A |
| 1403 | 2422 025 04851 | CON BMT 3P |
| 1404 | 4822 267 10565 | 4P |
| 1405 | 2422 025 10647 | CON BMT B4P-VH 1P |
| 1406 | 2422 025 04849 | CON BMT 2P |
| 1407 | 2422 025 04849 | CON BMT 2P |
| 1408 | 4822 071 52502 | Fuse 2.5A |
| 1409 | 4822 071 52502 | Fuse 2.5A |
| 8000 | 3139 110 30840 | CABL AS 04EH/040P 180 BK24F |
| 8002 | 4303 301 91570 | CABL AS 7P PART. SHIELDED AC_3 |
| 8003 | 4303 301 91580 | CABL AS 3P SHIELDED AC_3 |
| 8004 | 4303 301 00380 | CABL AS 2P AWG-22 AC_3 |
| 8005 | 3139 110 30730 | Cable 03EH/030P 280 3 BK 24F |

-II-

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|------|----------------|-----------------------|
| 2201 | 4822 126 13838 | 100nF 80-20% 50V 0805 |
| 2202 | 4822 126 11958 | 2,2nF 10% 500V |
| 2203 | 4822 126 13841 | 1nF 20% 250V |
| 2204 | 4822 122 33127 | 2,2nF 10% 63V |
| 2205 | 5322 121 42498 | 680nF 5% 63V |
| 2206 | 3143 018 90900 | 100pF 10% 1KV |
| 2207 | 2222 044 36478 | 4,7µF 20% 400V |
| 2208 | 2222 336 20105 | 1µF 20 275V |
| 2209 | 4822 124 12056 | 1000µF 20% 35V |
| 2210 | 4822 124 40196 | 220µF 20% 16V |
| 2211 | 4822 126 13838 | 100nF 80-20% 50V 0805 |
| 2301 | 4822 126 14043 | 1µF +80-20% 16V 0805 |
| 2302 | 4822 126 14043 | 1µF +80-20% 16V 0805 |
| 2303 | 4822 126 13751 | 47nF 10% 63V |
| 2304 | 4822 126 13751 | 47nF 10% 63V |
| 2401 | 4822 124 12056 | 1000µF 20% 35V |
| 2402 | 4822 124 11912 | 220µF 20% 6,3V |
| 2403 | 4822 124 11912 | 220µF 20% 6,3V |
| 2404 | 4822 124 42367 | 3300µF 20% 35V |
| 2405 | 4822 124 42367 | 3300µF 20% 35V |
| 2406 | 4822 124 40769 | 4,7µF 20% 100V |
| 2407 | 4822 124 40207 | 100µF 20% 25V |
| 2408 | 4822 124 81151 | 22µF 50V |
| 2409 | 4822 122 31947 | 100nF 20% 63V |
| 2410 | 4822 122 31947 | 100nF 20% 63V |
| 2411 | 4822 122 31947 | 100nF 20% 63V |
| 2412 | 4822 122 31947 | 100nF 20% 63V |
| 2413 | 4822 122 31947 | 100nF 20% 63V |
| 2414 | 4822 122 31947 | 100nF 20% 63V |
| 2415 | 4822 126 13473 | 220nF 80-20% 50V |
| 2416 | 4822 126 13473 | 220nF 80-20% 50V |
| 2420 | 5322 122 32268 | 470pF 10% 50V |
| 2421 | 4822 126 13473 | 220nF 80-20% 50V |
| 2422 | 4822 126 13473 | 220nF 80-20% 50V |
| 2426 | 5322 122 32268 | 470PF 10% 50V |
| 2427 | 4822 126 13473 | 220nF 80-20% 50V |

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| 2428 | 4822 126 13473 | 220nF 80-20% 50V |
| 2429 | 5322 122 32531 | 100pF 5% 50V |
| 2430 | 5322 122 32531 | 100pF 5% 50V |
| 2431 | 4822 126 13473 | 220nF 80-20% 50V |
| 2432 | 4822 126 13473 | 220nF 80-20% 50V |
| 2433 | 5322 122 32654 | 22nF 10% 63V |
| 2434 | 5322 122 32654 | 22nF 10% 63V |
| 2435 | 5322 122 32531 | 100pF 5% 50V |
| 2436 | 5322 122 32531 | 100pF 5% 50V |
| 2437 | 4822 126 13838 | 100nF 80-20% 50V 0805 |
| 2438 | 4822 126 13838 | 100nF 80-20% 50V 0805 |
| 2439 | 4822 126 13838 | 100nF 80-20% 50V 0805 |
| 2440 | 4822 126 13838 | 100nF 80-20% 50V 0805 |
| 2441 | 4822 126 14043 | 1µF +80-20% 16V 0805 |
| 2442 | 4822 126 13473 | 220nF 80-20% 50V |
| 2443 | 4822 126 13482 | 470nF 80/20% 16V |
| 2444 | 4822 126 13691 | 27pF 1% 63V |
| 2445 | 4822 126 13691 | 27pF 1% 63V |
| 2446 | 4822 126 13473 | 220nF 80-20% 50V |
| 2447 | 4822 126 13838 | 100nF 80-20% 50V 0805 |
| 2448 | 4822 126 13838 | 100nF 80-20% 50V 0805 |
| 2449 | 4822 126 13838 | 100nF 80-20% 50V 0805 |
| 2450 | 4822 126 13838 | 100nF 80-20% 50V 0805 |
| 2451 | 4822 126 13473 | 220nF 80-20% 50V |
| 2452 | 5322 122 32531 | 100pF 5% 50V |
| 2453 | 5322 122 32531 | 100pF 5% 50V |
| 2454 | 5322 122 32531 | 100pF 5% 50V |
| 2455 | 5322 122 32531 | 100pF 5% 50V |
| 2456 | 4822 122 33127 | 2,2nF 10% 63V |



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|------|----------------|-------------------|
| 3201 | 4822 051 52702 | 2k70 1% 0,125W |
| 3202 | 4822 053 21475 | 4M70 5% 0,5W |
| 3203 | 4822 053 21225 | 2M20 5% 0,5W |
| 3204 | 4822 051 52702 | 2k70 1% 0,125W |
| 3205 | 4822 051 20121 | 120R00 5% 0,1W |
| 3206 | 4822 117 11454 | 820Ω 1% 0,1W |
| 3207 | 4822 053 20106 | 10M00 5% 0,25W |
| 3208 | 4822 116 83883 | 470Ω 5% 0,5W |
| 3209 | 4822 117 11449 | 2k2 1% 0,1W |
| 3210 | 4822 117 11449 | 2k2 1% 0,1W |
| 3211 | 4822 117 10833 | 10k 1% 0,1W |
| 3212 | 4822 051 10472 | 4k70 2% 0,25W |
| 3214 | 4822 117 10833 | 10k 1% 0,1W |
| 3215 | 4822 116 52195 | 47Ω 5% 0,5W |
| 3216 | 4822 116 52182 | 15Ω 5% 0,5W |
| 3217 | 4822 116 52182 | 15Ω 5% 0,5W |
| 3219 | 4822 052 10108 | 1Ω 5% 0,33W |
| 3220 | 4822 052 10108 | 1Ω 5% 0,33W |
| 3221 | 4822 052 10109 | 10Ω 5% 0,33W |
| 3222 | 4822 052 10471 | 470Ω 5% 0,33W |
| 3223 | 4822 051 20471 | 470Ω 5% 0,1W |
| 3301 | 4822 116 83933 | 15k 1% 0,1W |
| 3302 | 4822 116 83933 | 15k 1% 0,1W |
| 3303 | 4822 117 11149 | 82k 1% 0,1W |
| 3304 | 4822 117 11149 | 82k 1% 0,1W |
| 3305 | 4822 051 20008 | 0Ω jumper 0805 |
| 3306 | 4822 051 20008 | 0Ω jumper 0805 |
| 3307 | 4822 051 20223 | 22k00 5% 0,1W |
| 3308 | 4822 051 20223 | 22k00 5% 0,1W |
| 3401 | 4822 050 23301 | 330Ω 1% 0,6W |
| 3402 | 4822 050 23301 | 330Ω 1% 0,6W |
| 3403 | 4822 050 23301 | 330Ω 1% 0,6W |
| 3404 | 4822 050 23301 | 330Ω 1% 0,6W |
| 3405 | 4822 117 11507 | 6k8 1% 0,1W |
| 3406 | 4822 051 20822 | 8k20 5% 0,1W |
| 3407 | 4822 051 20472 | 4k70 5% 0,1W |
| 3409 | 4822 051 20008 | 0Ω jumper 0805 |
| 3410 | 4822 117 10833 | 10k 1% 0,1W |
| 3411 | 4822 117 11507 | 6k8 1% 0,1W |
| 3412 | 4822 051 20822 | 8k20 5% 0,1W |
| 3413 | 4822 051 20472 | 4k70 5% 0,1W |
| 3415 | 4822 051 20008 | 0Ω jumper 0805 |
| 3416 | 4822 117 10833 | 10k 1% 0,1W |
| 3419 | 4822 116 83961 | 6k8 5% |
| 3420 | 4822 117 10834 | 47k 1% 0,1W |
| 3421 | 4822 117 10834 | 47k 1% 0,1W |
| 3422 | 4822 051 20472 | 4k70 5% 0,1W |
| 3423 | 4822 117 10834 | 47k 1% 0,1W |
| 3424 | 4822 117 13579 | 220k 1% 0.1W 0805 |
| 3425 | 4822 050 21003 | 10k00 1% 0,6W |
| 3426 | 4822 051 20334 | 330k00 5% 0,1W |
| 3427 | 4822 117 10837 | 100k 1% 0,1W |
| 3428 | 4822 117 10837 | 100k 1% 0,1W |
| 3429 | 4822 117 10833 | 10k 1% 0,1W |
| 3430 | 4822 117 10833 | 10k 1% 0,1W |
| 3431 | 4822 117 10833 | 10k 1% 0,1W |
| 3432 | 4822 051 20335 | 3M30 5% 0,1W |
| 3433 | 4822 051 20474 | 470k00 5% 0,1W |

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| 3434 | 4822 117 11149 | 82k 1% 0,1W |
| 3435 | 4822 051 20474 | 470k00 5% 0,1W |
| 3436 | 4822 051 20223 | 22k00 5% 0,1W |
| 3437 | 4822 051 20472 | 4k70 5% 0,1W |
| 3438 | 4822 117 10833 | 10k 1% 0,1W |
| 3439 | 4822 116 52195 | 47Ω 5% 0,5W |
| 3440 | 4822 117 10834 | 47k 1% 0,1W |
| 3441 | 4822 117 10834 | 47k 1% 0,1W |
| 3442 | 4822 117 11449 | 2k2 1% 0,1W |
| 3443 | 4822 051 20472 | 4k70 5% 0,1W |
| 3444 | 4822 051 20562 | 5k6 5% 0,1W 0805 |
| 3445 | 4822 117 10833 | 10k 1% 0,1W |
| 3446 | 4822 117 10833 | 10k 1% 0,1W |
| 3447 | 4822 117 10833 | 10k 1% 0,1W |
| 3448 | 4822 117 10837 | 100k 1% 0,1W |
| 3449 | 4822 117 10833 | 10k 1% 0,1W |
| 3450 | 4822 117 11449 | 2k2 1% 0,1W |
| 3452 | 4822 052 10828 | 8.2Ω 5% 0,33W |
| 3453 | 4822 052 10828 | 8.2Ω 5% 0,33W |
| 3458 | 4822 051 20472 | 4k70 5% 0,1W |
| 3459 | 4822 051 20472 | 4k70 5% 0,1W |
| 3460 | 4822 117 10833 | 10k 1% 0,1W |
| 3461 | 4822 051 20102 | 1k00 5% 0,1W |
| 3462 | 4822 051 20102 | 1k00 5% 0,1W |
| 4xxx | 4822 051 10008 | 0Ω jumper 1206 |
| 4xxx | 4822 051 20008 | 0Ω jumper 0805 |

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|------|----------------|-----------------------------------|
| 5201 | 4303 308 75810 | COIL MAN TLF12UA 303 WO R4 |
| 5202 | 2422 535 97353 | COIL FIX UIA 680 MU PM10 LAL04 |
| 5203 | 2422 535 97353 | COIL FIX UIA 680 MU PM10 LAL04 |
| 5204 | 3128 138 38610 | Standby transf. |
| 5205 | 4822 157 70436 | 8,2µH |
| 5206 | 4303 308 75820 | Relay MAN JW1AFSN-B- DC12V |



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|------|----------------|-------------|
| 6101 | 9337 175 71682 | TLSV5100 |
| 6201 | 4822 130 31878 | 1N4003G |
| 6202 | 5322 130 31938 | BYV27-200 |
| 6203 | 4822 130 83338 | LL4148 |
| 6204 | 4822 130 83338 | LL4148 |
| 6205 | 4822 130 83338 | LL4148 |
| 6206 | 4822 130 83147 | DF06M |
| 6207 | 9338 872 80673 | BZX55-F22 |
| 6208 | 4822 130 34281 | BZX79-B15 |
| 6209 | 4822 130 30842 | BAV21 |
| 6210 | 4822 130 83338 | LL4148 |
| 6211 | 4822 130 11421 | BT151X-500R |
| 6212 | 9339 530 90685 | TZM-C20 |
| 6401 | 4822 130 30862 | BZX79-B9V1 |
| 6402 | 4822 130 30862 | BZX79-B9V1 |
| 6403 | 4822 130 34278 | BZX79-B6V8 |
| 6404 | 4822 130 34173 | BZX79-B5V6 |
| 6405 | 4822 130 31878 | 1N4003G |
| 6406 | 4822 130 31878 | 1N4003G |
| 6407 | 4822 130 31878 | 1N4003G |
| 6408 | 4822 130 31878 | 1N4003G |
| 6409 | 4822 130 31878 | 1N4003G |
| 6410 | 4822 130 31878 | 1N4003G |
| 6411 | 4822 130 31878 | 1N4003G |
| 6412 | 4822 130 31878 | 1N4003G |
| 6413 | 4822 130 31878 | 1N4003G |
| 6414 | 4822 130 31878 | 1N4003G |
| 6415 | 4822 130 31878 | 1N4003G |
| 6416 | 4822 130 31878 | 1N4003G |
| 6417 | 4822 130 31878 | 1N4003G |
| 6418 | 4822 130 31878 | 1N4003G |
| 6421 | 4822 130 83338 | LL4148 |
| 6422 | 4822 130 83338 | LL4148 |
| 6423 | 4822 130 83338 | LL4148 |
| 6424 | 4822 130 83338 | LL4148 |
| 6425 | 4822 130 83338 | LL4148 |
| 6426 | 4822 130 83338 | LL4148 |
| 6427 | 4822 130 83338 | LL4148 |
| 6428 | 4822 130 30621 | 1N4148 |
| 6429 | 4822 130 83338 | LL4148 |
| 6430 | 4822 130 83338 | LL4148 |
| 6431 | 4822 130 83338 | LL4148 |
| 6432 | 4822 130 83338 | LL4148 |
| 6433 | 4822 130 83338 | LL4148 |
| 6434 | 4822 130 31878 | 1N4003G |
| 6436 | 4822 130 31878 | 1N4003G |
| 6437 | 4822 130 30621 | 1N4148 |



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| 7201 | 4822 209 15867 | L4940V12 |
| 7203 | 4822 130 11418 | TCDT1102G |
| 7204 | 4822 130 44568 | BC557B |
| 7205 | 4822 130 60511 | BC847B |
| 7206 | 4822 130 44503 | BC547C |
| 7207 | 4822 130 11417 | STP3NB60FP |
| 7401 | 4822 209 32641 | TDA2616Q |
| 7402 | 4822 209 30095 | LM833D |
| 7403 | 4822 209 30095 | LM833D |
| 7404 | 5322 209 82941 | LM358D |
| 7405 | 5322 209 70225 | LM393D |
| 7410 | 4822 130 60373 | BC857B |
| 7411 | 4822 130 60373 | BC857B |
| 7412 | 4822 130 60511 | BC847B |
| 7413 | 4822 130 60511 | BC847B |
| 7414 | 4822 130 40981 | BC337-25 |
| 7415 | 4822 130 60511 | BC847B |
| 7416 | 4822 130 60511 | BC847B |
| 7417 | 4822 130 60511 | BC847B |